SUBMIT: COMPLETED APPLICATION, TAX STATEMENT AND FEE TO: Bayfield County Planning and Zoning Depart. PO Box 58

Washburn, WI 54891

(715) 373-6138

APPLICATION FOR PERMIT
BAYFIELD COUNTY, WISCONSIN

JAN 112022

Bayfield Co.
Planning and Zoning Agency

Permit #:	22-0039	
Date:	3-7-2000	
Amount Paid:	112500 1-11-22 Com-Alteration	H I6
Other:	Contripictation	
Refund:		

INSTRUCTIONS: No permits will be issued until all fees are paid.
Checks are made payable to: Bayfield County Zoning Department.

DO NOT START CONSTRUCTION UNTIL ALL PERMITS HAV	VE BEEN ISSUED TO APPLICANT.
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Original Application MUST be submitted

FILL OUT IN INK (NO PENCIL

TYPE OF PERMIT I	REQUESTE	+	LAND	USE [SANITA		□ coi	IDITIONAL US		ISE B.O.A.	OTHE	R
T-Mobile / Noi	rvado, In	c.				Address: US Hwy 63			ity/State/Zip: Cable, WI 54821	G .	Tele (208	phone: 3) 229-8710
Address of Property: 15185 Nordmor Road				Cit	y/State/Zin able, WI 5482	21		- 1/2 (1) (1)			• • • • • • • • • • • • • • • • • • • •	
Email: (print clearly) mary.marshall@powderrivero									Cell Phone: (714) 658-1502			
Contractor:	-				1	ctor Phone:	P	lumber:			Plur	nber Phone:
uthorized Agent:	(Person Sign	ing Applic	ation on behalf	f of	Agent	Phone;	A	gent Mailing Ar	dress (include City,	State (7in)		
wner(s))Mary Ma	rshall- Po	wder R	iver Develo	pment		Phone: 29-8710	40	8 S. Eagle Rd	. Suite 200, Eagle	e, ID 83616	Re	tten Authorizatio quired (for Agent
	egal Descr	iption:	(Use Tax Sta	tement)		827 910 L	1			Recorded Docu		ng Ownership)
SW 1/4, SW	1/4	Go	v't Lot	Lot(s)	CSM	Vol & Page C	SM Doc#	Lot(s)	# Block #	Subdivision:		
Section 28	, Townsh	ip	3 N, Ran	ge 07	w	Town of: Cable				Lot Size	Α	creage
1-9-1-00-0	☐ Is Pro	perty/L	and within 3	00 feet of	River, Str	eam (incl. Intermitte	unt)	Distance Stru	cture is from Sho		Prove Drewart	
☐ Shoreland —	Creek o	r Landw	ard side of I	Floodplain	lf	yes-continue -			come is irom sno		rour Property Floodplain Zone?	Are Wetla Present
	□ Is Pro	perty/L	and within 1	.000 feet o	f Lake, Po	ond or Flowage	-	Distance Stru	cture is from Sho	eline :	☐ Yes	☐ Yes
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Shoreland								4/1	<u> </u>		L	
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	□ New	Constr	uction	☐ 1-St		☐ Basemen	t	□ 1 ·	Municipal			□ Cit
\$ 25,000.00	X Addit	tion/A	teration	☐ 1-Ste		☐ Foundation	on	O 2	□ (New) San	tary Specify T	ype:	□ We
	☐ Conv	ersion		□ 2-St	ory	□ Slab		□ 3	☐ Sanitary (E	xists) Specify T	уре:	
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Proposed I	Use	1				Proposed S	tructur			Dime	nsions	Square
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	1, 1, 1					ing shack, etc.)				()		
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result of Bayfield Cou property at any reason Owner(s):	inty relying on nable time for	this informathe purpo	f all information mation I (we) am ise of inspection.	g information I (we) am (are I (are) providir	has been ex providing a g in or with	iamined by me (us) and not that it will be relied this application. I (we)	to the bes upon by Ba consent to	of my (our) knowle yfield County in de county officials cha	TWILL RESULT IN PER edge and belief it is true, termining whether to iss rged with administering	correct and complete	. (we) acknowlether accept liab have access to t	edge that I (we) am in y which may be a he above described
Authorized Age	nt: M	w	NW	1000	ha	DX.		ac accompa	ny this application)	2	01/04/22)
(If you	are signir	ig on b	ehalf of the	e owner(s	a lette	r of authorizati	on mus	accompany	this application	Date	01/04/22	-
		LAC	1	1000	1	V						
Address to send	permit	708	5. 1=	46LE	Ko	AD 2200	FA	COLE ID	83616		Attach y of Tax Sta	Contract of the Contract of th

APPLICANT - PLEASE COMPLETE PLOT PLAN

In the box below: Draw or Sketch your Property (regardless of what you are applying for)

(1) Show Location of:

Proposed Construction

Show / Indicate: North (N) on Plot Plan (2) Show Location of (*):

Fill Out in Ink - NO PENCIL

(3) (4)

(*) Driveway and (*) Frontage Road (Name Frontage Road) Show: All Existing Structures on your Property

Show: (5) Show any (*): (6)

(*) Well (W); (*) Septic Tank (ST); (*) Drain Field (DF); (*) Holding Tank (HT) and/or (*) Privy (P)

(*) Lake; (*) River; (*) Stream/Creek; or (*) Pond

Show any (*): (*) Wetlands; or (*) Slopes over 20%



Please complete (1) - (7) above (prior to continuing)

(8) Setbacks: (measured to the closest point)

Changes in plans must be approved by the Planning & Zoning Dept.

Description		Setback Measurements		Description	Setback Measurements	
Setback from the Centerline of Platted Road	21/9	Feet		Setback from the Lake (ordinary high-water mark)		Feet
Setback from the Established Right-of-Way	21/9	Feet		Setback from the River, Stream, Creek		Feet
			120	Setback from the Bank or Bluff		Feet
Setback from the North Lot Line	180	Feet				
Setback from the South Lot Line	1/24	Feet		Setback from Wetland		Feet
Setback from the West Lot Line	356	Feet		20% Slope Area on the property	Yes	□ No
Setback from the East Lot Line	935	Feet		Elevation of Floodplain		Feet
Setback to Septic Tank or Holding Tank	_	Feet		Setback to Well		Feet
Setback to Drain Field		Feet				
Setback to Privy (Portable, Composting)	/	Feet	No.			

other previously surveyed corner or marked by a licensed surveyor at the owner's expense.

ior to the placement or construction of a structure more than ten (10) feet but less than thirty (30) feet from the minimum required setback, the boundary line from which the setback must be measured must be visible from a previously surveyed corner to the other previously surveyed corner, or verifiable by the Department by use of a corrected compass from a known corner within 500 feet of the proposed site of the structure, or must be

(9) Stake or Mark Proposed Location(s) of New Construction, Septic Tank (ST), Drain field (DF), Holding Tank (HT), Privy (P), and Well (W).

NOTICE(s):

@@January 2000

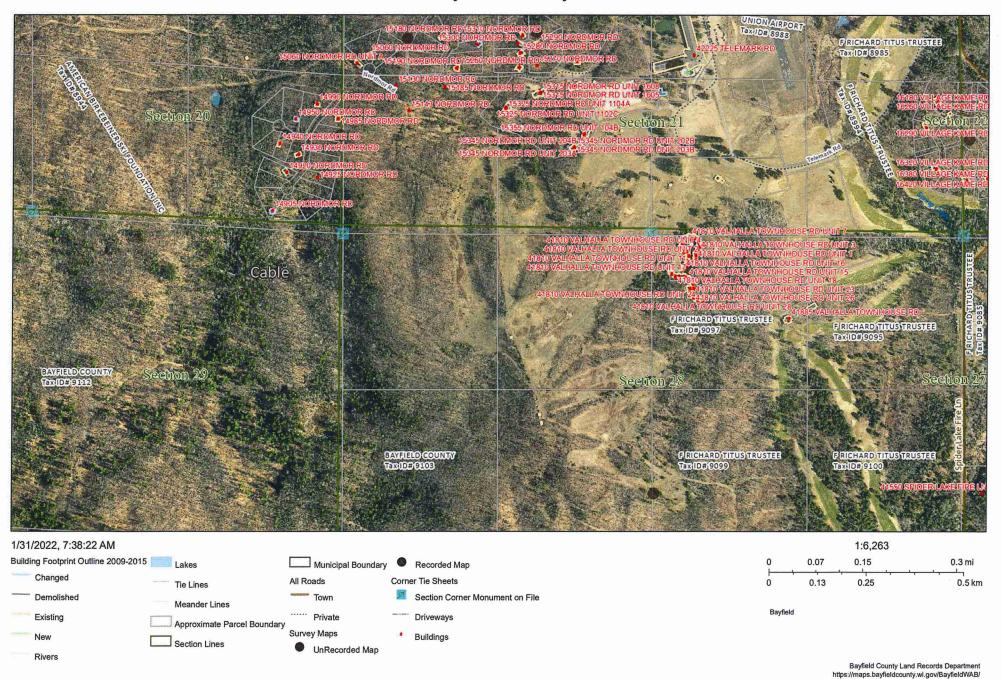
All Land Use Permits Expire One (1) Year from the Date of Issuance if Construction or Use has not begun. For the Construction of New One & Two Family Dwelling: ALL Municipalities Are Required To Enforce The Uniform Dwelling Code.
The local Town, Village, City, State or Federal agencies may also require permits.

If subject property is part of a Condominium Plat, applicant hereby certifies and represents that applicant has all necessary approvals and recorded documents required to complete the project for which this permit is sought including requirements set forth in Wisconsin statutes pertaining to condominium associations, the Declaration of the Condominium Association in which the property is located, and all other rules, regulations and requirements pertaining to that Condominium Association.

You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the department of natural resources wetlands identification web page or contact a department of natural resources service center (715) 685-2900.

Issuance Information (County Use Only)	Sanitary Number:	-	# of bedrooms:	Sanitary Date:
Permit Denied (Date):	Reason for Denial:			
Permit #: 23 - 003 9	Permit Date: 3-5	3-2092		
Is Parcel a Sub-Standard Lot Is Parcel in Common Ownership Is Structure Non-Conforming Yes Coed of Reconstruction Yes Yes	uous Lot(s))	Mitigation Required Mitigation Attached	the state of the s	Affidavit Required ☐ Yes ☐ No ☐ Yes ☐ No
Granted by Variance (B.O.A.) ☐ Yes 🚅 🛱 G Case #:		Previously Granted by O Yes O No	/ Variance (B.O.A.) Case	±#:
Was Parcel Legally Created Was Proposed Building Site Delineated Wes C No.		Were Property Line	es Represented by Owner Was Property Surveyed	☐Yes □ No ☐ No
chance Antenna & algrabe	cablet	1		Zoning District (R-RB) Lakes Classification (NA)
Date of Inspection: 12/20/21	Inspected by:	aler		Date of Re-Inspection:
Condition(s): Town, Committee or Board Conditions Atta		No they need to be atta	iched.)	
- Mobily as prapa	sed			
			and a market to be	
Signature of Inspector:	THE PERSON NAMED IN COLUMN			Date of Approval: 2/1/22
Hold For Sanitary: Hold For TBA:	Hold For Affic	davit:	Hold For Fees:	

Bayfield County, WI



YEAR LOLAKE DAYNER COUNTY FTOPERTY LIGHTY

'oday's Date: 1/31/2022

Created On: 3/15/2006 1:15:05 PM

Description Updated: 1/12/2022

Tax ID: PIN:

9104

Legacy PIN:

04-012-2-43-07-28-2 04-000-10000 012107410000

Map ID: 1unicipality:

(012) TOWN OF CABLE

TR: Description:

S28 T43N R07W SE NW IN DOC 2021R-592594 492A

Recorded Acres: 40.000 Calculated Acres: 39.106 .ottery Claims: 0

First Dollar: No 'oning: (R-RB) Residential-Recreational Business

108 ESN:

J	Tax	Districts
-	-	

Updated: 3/15/2006 STATE)4 COUNTY)12 TOWN OF CABLE)41491 SCHL-DRUMMOND)01700 TECHNICAL COLLEGE



Updated: 4/5/2012 CORRECTION INSTRUMENT

Date Recorded: 12/15/2021 2021R-592594

WARRANTY DEED

Date Recorded: 2/11/2021 2021R-587023

■ SHERIFFS DEED ON FORECLOSURE

Date Recorded: 11/7/2013 2013R-552229 1117-714

WARRANTY DEED

Date Recorded: 6/21/2011 2011R-538992 1063-948

Ownership

Updated: 9/21/2021

AMERICAN BIRKEBEINER SKI FOUNDATION INC

HAYWARD WI

Billing Address:

Mailing Address:

AMERICAN BIRKEBEINER SKI AMERICAN BIRKEBEINER SKI **FOUNDATION INC FOUNDATION INC**

PO BOX 911

PO BOX 911

HAYWARD WI 54843

HAYWARD WI 54843

Site Address * indicates Private Road

N/A

Property Assessment	Updated: 6/17/2020			
2021 Assessment Detail				
Code	Acres	Land	Imp.	
G6-PRODUCTIVE FOREST	40.000	84,000	0	
2-Year Comparison	2020	2021	Change	
Land:	84,000	84,000	0.0%	
Improved:	0	0	0.0%	
Total:	84,000	84,000	0.0%	



Property History

N/A



JAN 112022

Bayfield Co. Planning and Zoning Agency **Powder River Development Services, LLC**

408 S. Eagle Rd., Suite 200 Eagle, ID 83616 (208) 938-8844 office (208) 938-8855

www.powderriverdev.com

January 4, 2022

Bayfield County Planning and Zoning P.O. Box 58 Washburn, WI 54891

RE: Application for Permit Submittal

T-Mobile Site ID: A1N0961A Cable Tower

Site Location: 15185 Nordmor Road, Cable, WI 54821 Property ID Number: 04-012-2-43-07-28-2 04-000-10000

Powder River Development Services represents T-Mobile regarding their proposed upgrades and modifications to the existing unmanned wireless telecommunications facility referenced above.

The Scope of Work Includes:

At antenna level:

Remove (3) Antennas, (2) FXFC, (1) 1.0 COVP and (1) Hybrid Cable; install (6) Antennas, (3) AHFIG, (3) AHLOA and (2) HCS 2.0 Hybrid Cable w/ Integral Pendant Breakout.

At equipment level:

Remove (1) FSMF, (1) 1.0 COVP, (1) SSC, (1) Flexi Table and (1) CSR 7705 SAR A; relocate (1) FSMF; install (2) ASIB, (2) ASIK, (3) ABIA, (6) ABIL, (2) ABIC, (2) AMIA, (1) Voltage Booster w/ (1) Extra AMP, (1) CSR IXRE V2 (GEN2), (1) LB3 Battery Cabinet, (1) HPL3 Cabinet and (2) HCS 2.0 Tower Junction Boxes.

There will be no increase in the tower height and no expansion of the equipment area.

Enclosed Submittal Documents:

- Completed Application for Permit
- Letter of Authorization from Property Owner
- Property Ownership Listing
- Eligible Facilities Request Letter
- Construction Drawings
- \$125.00 Check for Application Fee

Project Valuation: \$25,000.00

If you have any questions or need more information, I can be reached by phone at (208) 229-8710 or by email at mary.marshall@powderriverdev.com.

Mary Marshall Respectfully,

Mary Marshall

Site Acquisition Manager



Bayfield Co.
Planning and Zoning Agency

¥ 14

LETTER OF AUTHORIZATION

To: Bayfield County Planning and Zoning Department

RE: Land Use Permit Application

T-Mobile Site ID: A1N0961A Cable Tower

Property Address: 15185 Nordmor Road, Cable, WI 54821 Parcel ID Number: 04-012-2-43-07-28-2 04-000-10000

As owner(s) or authorized representative of the above-described property, I/we hereby appoint Powder River Development Services, including their authorized representatives, as agent for the purpose of completing and submitting any Land Use Applications necessary to ensure T-Mobile USA's ability to use and/or construct improvements to the property leased, or licensed to it for the purpose of modifying an existing Wireless Telecommunications Facility. Powder River Development Services agrees to acquire written approval from T-Mobile USA on all plans and drawings prior to submitting to the governmental jurisdiction for Land Use approval. I/We understand that the application may be denied, modified or approved with conditions and that such conditions or modifications must be complied with prior to issuance of Building Permits.

I/We hereby authorize the employees of the Bayfield County Planning and Zoning Department to enter upon the subject property during normal business hours as necessary to inspect the property for the purpose of processing this application.

Roll el
Property Owner or Authorized Representative Signature
ROB COMBARD
Name
C.O.O.
Title
12/14/21 Date
Date.

Real Estate Bayfield County Property Listing

Today's Date: 1/4/2022

Property Status: Current

Created On: 3/15/2006 1:15:05 PM

Description

Updated: 9/21/2021

Tax ID: PIN:

8982

04-012-2-43-07-21-3 03-000-10000

Legacy PIN:

012106107000

Map ID:

Municipality: STR:

(012) TOWN OF CABLE S21 T43N R07W

Description:

PAR IN SW SW IN DOC 2021R-587023

397

Recorded Acres: Calculated Acres: 39.000 39.201

Lottery Claims: First Dollar:

0 No

Zoning:

(R-RB) Residential-Recreational Business

ESN:

108

3	Tax
1	

Districts Updated: 3/15/2006

STATE 04 COUNTY 012 TOWN OF CABLE 041491 SCHL-DRUMMOND 001700 **TECHNICAL COLLEGE**



Recorded Documents

Updated: 3/15/2006

WARRANTY DEED

Date Recorded: 2/11/2021

2021R-587023

SHERIFFS DEED ON FORECLOSURE

Date Recorded: 11/7/2013

2013R-552229 1117-714

CONVERSION

Date Recorded:

767-372

🏜 Ownership

Updated: 9/21/2021

AMERICAN BIRKEBEINER SKI

FOUNDATION INC

HAYWARD WI

Billing Address:

Mailing Address:

AMERICAN BIRKEBEINER SKI AMERICAN BIRKEBEINER SKI **FOUNDATION INC FOUNDATION INC**

PO BOX 911 HAYWARD WI 54843

PO BOX 911 HAYWARD WI 54843

Site Address * indicates Private Road

15185 NORDMOR RD

CABLE 54821

0.0%

Property Assessment	Updated: 6/17/2020			
2021 Assessment Detail				
Code	Acres	Land	Imp.	
G6-PRODUCTIVE FOREST	39.000	81,900	0	
2-Year Comparison	2020	2021	Change	
Land:	81,900	81,900	0.0%	
Improved:	0	0	0.0%	

81,900



Total:

Property History

N/A

RECEIVED

81,900

JAN 112022

Bayfield Co. Planning and Zoning Agency



JAN 112022

Bayfield Co.
Planning and Zoning Agency

Eligible Facilities Request

Date: January 4, 2022

To: Bayfield County Planning and Zoning

From: Powder River Development Services, LLC o/b/o T-Mobile Central LLC

Re: Eligible Facilities Request to modify Transmission Equipment on an Existing Wireless

Tower located at 15143 Nordmor Road, Cable, WI 54821; T-Mobile Site: A1N0961A

A. <u>T-Mobile's Proposed Project is an Eligible Facilities Request that Must Be Granted</u>

Powder River Development Services, LLC on behalf of T-Mobile Central LLC ("Applicant") is submitting the attached application to add, remove, modify, or replace Transmission Equipment (the "Request") at the existing Tower located at 15143 Nordmor Road, Cable, WI 54821 in Bayfield County ("County").

This Request is covered by Section 6409 of the Spectrum Act (47 U.S.C. Sect. 1455(a)),¹ which provides that state and local governments "may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." In this case, the enclosed Request involves a proposal to remove and replace antennas, coax cables and misc. ancillary equipment. The existing Tower is a structure that is 55 feet high and presently contains wireless facilities.

In its implementing regulations, the Federal Communications Commissions ("FCC") determined that any modification to an existing telecommunications Tower that meets the following criteria does not substantially change the physical dimensions of the existing Tower (47 C.F.R. § 1.6100(b)(7)), and therefore is an Eligible Facilities Request that must be granted under Section 6409. The proposed project satisfies those criteria as outlined below because it:

1) Will not increase the height of the Tower by more than ten percent (10%) or twenty (20) feet, whichever is greater;

¹ See also 47 C.F.R. § 1.6100 (the FCC's 6409 implementing regulations).

Bayfield Co.

Planning and Zoning Agency

There will be no increase in Tower height.

2) Does not protrude from the edge of the Tower by more than twenty (20) feet;

The antennas will not protrude from the edge of the Tower by more than twenty (20) feet.

- 3) The proposed project does not defeat any existing concealment elements. To be considered a "concealment element," the element must have been a part of the facility at either:
 - (1) the time of original approval; or
 - (2) at the last modification of the tower if such modification occurred prior to the February 22, 2012 or outside the 6409(a) process (whichever is later).

The definition of "concealment elements" does not extend to "any attribute that minimizes the visual impact of a facility, such as a specific location on a rooftop site or placement behind a tree line or fence." Moreover, a proposed modification can increase the size of the concealment features, so long as they: (i) do not increase by more than the criteria in (1) and (2) above, and (ii) would continue to effectively make "the structure appear not to be a wireless Facility." If the concealment elements would continue to effectively make the structure appear not to be a wireless facility after the proposed modification, then the modification would not defeat concealment

The existing site does not have any existing concealment elements, so this criterion is satisfied.

4) Does not entail any excavation outside the current Tower site;

The proposed project will not involve excavations outside the current Tower site.

5) Does not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.

The proposed project will involve the removal of two (2) existing cabinets and the installation of two (2) new cabinets for a total of two (2) cabinets.

6) The proposed project complies with all prior conditions of approval for the existing site, except for any non-compliance that is due to an increase in height, increase in width,

² Implementation of State and Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012, FCC 20-75, Declaratory Ruling and Notice of Proposed Rulemaking, ¶ 35 (June 10, 2020). ("5G Upgrade Order").

JAN 11 2022

Bayfield Co.
Planning and Zoning Agency

addition of equipment cabinets, or new excavation that does not exceed the thresholds above. These conditions may relate to aesthetics or minimizing the visual impact of the wireless facility. To be enforced, there must be express evidence of specific conditions of approval and continued compliance with such conditions.

This project includes the removal of three (3) existing antennas, replacing them with three (6) new antennas.

Finally, all of the equipment being installed as part of this Request qualifies as Transmission Equipment under the FCC's rules at 47 C.F.R. § 1.6100(b)(8).

Based on the foregoing, the Request qualifies for expedited processing under the Spectrum Act.

B. <u>The 60 day Shot Clock Applies to All Necessary Permits or Authorizations to Necessary</u> <u>for T-Mobile to Proceed with the Request</u>

Under Section 6409 "a State or local government may not deny, and shall approve, any eligible facilities request . . . " within 60 days of the filing of a complete application.³ As the FCC's explained in its recent declaratory rule, that time period covers "all qualifying applications" and all necessary permits and authorizations.⁴ Where a jurisdiction requires an applicant too obtain clearance from numerous separate departments or obtained numerous permits, the FCC explained that the applicant starts the 60 day shot clock when: 1) it takes the "first procedural step" that the jurisdiction requires, even if there are multiple potential "first steps" with various municipal committees or departments, and 2) the applicant provides written documentation demonstrating that the applicable eligible facilities request criteria are satisfied.⁵

Thus, it is clear that the shot clock and deemed granted remedy of the FCC's rules apply to all of Barron County's requirements, and the 60 day period starts with the filing of the enclosed application.

C. Notice of Expedited Permit Processing and Deemed Granted Remedy

Under federal law, any Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed. Thus, if sixty days pass after the submission of this Request and the County has not acted to grant or deny the Request, it will be deemed granted.⁶ At that time, the

³ Id. ¶ 39 (June 10, 2020). 47 U.S.C. § 1455(a)(1).

⁴ County of Portland v. U.S., 2020 U.S. App. Lexis 25553 **48-49 (9th Cir. Aug. 12, 2020).

⁵ 5G Upgrade Order, ¶¶ 15-16 (June 10, 2020). The FCC also explained that its ruling provided "considerable flexibility" to structure their procedures for review of Eligible Facilities Requests, "but prevent localities from 'impos[ing] lengthy and onerous processes not justified by the limited scope of review contemplated' by Section 6409(a)." *Id.* ¶ 17.

⁶ Under the FCC's rules, the jurisdiction has 30 days to advise the applicant of the completeness of its application. The rules also provide for the tolling of the shot clock under certain situations.

applicant may advise the County that the application has been deemed granted. If the County wishes to contest whether Request has been deemed granted, the burden is on the County to file a lawsuit in a court of competent jurisdiction within 30 days after receipt of a written communication notifying it that the Request has been deemed granted.

T-Mobile is committed to working cooperatively with you to process this request in a timely and efficient manner. Please do not hesitate to contact me if you have questions at the phone number or email below.

Sincerely, Mary Marshall

Mary Marshall Site Acquisition Manager

Powder River Development Services, LLC

408 S. Eagle Drive, Suite 200

Eagle, ID 83616 (208) 229-8710

mary.marshall@powderriverdev.com

RECEIVED

JAN 11 2022

Bayfield Co.
Planning and Zoning Agency

T-Mobile ®

SITE PHOTO

VICINITY MAP NOT TO SCALE

T-MOBILE PROJECT

ANCHOR

SITE INFORMATION

T-MOBILE SITE NUMBER: T-MOBILE SITE NAME: SITE TYPE:

COUNTY: JURISDICTION:

SITE ADDRESS:

A1N0961A

CABLE WI-TELEMARK 55 SELF SUPPORT TOWER 15143 NORDMORE ROAD **CABLE, WI 54821**

BAYFIELD **BAYFIELD COUNTY**

PROJECT DESCRIPTION

ANTENNA (CL): 55'

AT ANTENNA LEVEL

REMOVE (3) ANTENNAS, (2) FXFC, (1) 1.0 COVP, AND (1) 1.0 HYBRID CABLES.

INSTALL (6) ANTENNAS, (3) AHLOA, (3) AHFIG, (2) HCS 2.0 HYBRID CABLE w/ INTEGRAL PENDANT BREAKOUT.

AT GROUND LEVEL REMOVE (1) FSMF, (1) 1.0 COVP, (1) SSC, (1) FLEXI TABLE, AND (1) CSR 7705

RELOCATED (1) FSMF.

INSTALL (2) ASIB, (2) ASIK, (3) ABIA, (6) ABIL, (3) ABIC, (2) AMIA, (1) VOLTAGE BOOSTER W/ (1) AMPS, (1) CSR IXRe V2 (GEN2), (1) LB3 BATTERY CABINET, (1) HPL3 CABINET, AND (2) HCS 2.0 JUNCTION BOXES.

THESE DRAWINGS ARE BASED ON RFDS VERSION 2 DATED 10/28/2021 GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF THE RFDS WITH T-MOBILE NETWORKS PRIOR TO

PROPERTY LOCATION

CABLE. WI 54821

APPLICABLE CODES

2020 MINNESOTA BUILDING CODE 2017 NATIONAL ELECTRICAL CODE

CONTACT INFORMATION

T-MOBILE USA, INC. 8000 WEST 78TH STREET, SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

A&E SERVICES:
POWDER RIVER DEVELOPMENT SERVICES, LLC. 408 S. EAGLE ROAD, SUITE 200 EAGLE, ID 83616 CONTACT: CHRIS CROSBY PHONE: 763.360.1451 EMAIL: chris.crosby@powderriverdev.com

SITE ACQUISITION:
POWDER RIVER DEVELOPMENT SERVICES, LLC.
408 S. EAGLE ROAD, SUITE 200 EAGLE, ID 83616 CONTACT: MARY MARSHALL

PHONE: 208.229.8710
EMAIL: mary.marshall@powderriverdev.com

TOWER OWNER INFO

LL SITE ID: N/A LL SITE NAME: TELEMARK B20

COORDINATES

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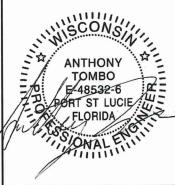
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SITE INFORMATION:

T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: **CABLE WI-TELEMARK**

15143 NORDMORE ROAD **CABLE. WI 54821 BAYFIELD**

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

GENERAL NOTES

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE ENGINEER.

2.WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST EDITION OF THE BUILDING CODE AND ALL OTHER LOCAL, STATE AND

FEDERAL REGULATIONS.

3.OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.

4.ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED OT THE ENGINEER SO THAT THE PROPER REVISION MAY BE MADE. MODIFICATIONS OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

5.THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. INCLUDING BUT NOT LIMITED TO BRACING, TEMPORARY SUPPORTS AND SHORING, OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS. BUT DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. NEITHER THE OWNER NOR ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

6.SAFETY: CONFORM TO ALL APPLICABLE OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY

THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER OR OWNER.
7.ANY PROPRIETARY COMPONENTS, MOUNTS, MATERIALS, CHEMICAL, EPOXY AND WEDGE ANCHORS, AND SHOT PINS SHALL BE EXACTLY AS CALLED FOR IN THESE DRAWINGS. ANY DEVIATIONS SHALL BE APPROVED OR DISAPPROVED BY THE ENGINEER AT THE EXPENSE OF THE ENTITY REQUESTING THE SUBSTITUTION PRIOR TO THE INSTALLATION.

8.THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: THE CONTRACT, SPECIFICATIONS AND CONSTRUCTION DRAWINGS.

9. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COORDINATION AND ASSEMBLY OF ALL PARTS OF THE CONSTRUCTION DEPICTED HEREIN. THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTABILITY REVIEW OR COORDINATION DRAWINGS NECESSARY TO IDENTIFY CONSTRUCTABILITY PROBLEMS PRIOR TO

O. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING JOB SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL SERVICE AND OVERALL COORDINATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC., SHALL BE REPORTED TO THE CARRIER CONSTRUCTION SUPERVISOR BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING STRUCTURES, LANDSCAPING OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT, BUILDING OWNER OR OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.

12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.

4. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET

FACILITIES AS REQUIRED BY THE GOVERNING AGENCY.

THE CONTRACTOR AND ALL SUBORDINATE CONTRACTORS SHALL COMPLY WITH ALL LOCAL AND STATE AND FEDERAL REGULATIONS.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO CARRIER.

7. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR PERFORM ANY CONSTRUCTION ACTIVITIES UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN ITEMS COVERED IN SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC PLANS OR DETAILS. THE ENGINEER SHALL BE NOTIFIED, AND HE/SHE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS PRIOR TO THE INSTALLATION OF THAT

8. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION.

THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB

CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK

EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE

(1). ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE CONTACTED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK

2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT NOT OTHERWISE SHOWN HEREIN, ALL SUSPENDED MECHANICAL EQUIPMENT TO BE SWAY OR LATERALLY BRACED

GOVERNING AGENCY-APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. AT ALL TIMES THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

DESIGN DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS WILL PERMIT. ANY ERROR, OMISSION, OR DESIGN DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE CARRIER CONSTRUCTION SUPERVISOR FOR CLARIFICATION OR CORRECTION BEFORE

5. AS-BUILT REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE CARRIER CONSTRUCTION SUPERVISOR'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CARRIER CONSTRUCTION SUPERVISOR FOR THE OWNER'S

A CLOSEOUT BOOK CONTAINING THE FOLLOWING, SHALL BE PROVIDED BY THE CONTRACTOR, AS APPLICABLE:

A.AS BUILT DESIGN DRAWINGS

B.SWEEP TEST RESULTS

C.RESISTIVELY TEST

D.PHOTO DOCUMENTATION OF:

I. UNDERGROUND CONDUITS AND GROUND RING

II. ANTENNA, COAX, JUMPER ATTACHMENTS AND GROUND KIT ATTACHMENTS

III. ANTENNA DOWN TILT MEASUREMENT USING AN INCLINOMETER ON THE BACK PLANE OF THE ANTENNA

IV. GROUND BAR ATTACHMENTS

E.SIGNED OFF PERMIT CARDS

E CERTIFICATE OF OCCUPANCY

G.RETURN OF KEYS AND/OR ACCESS AUTHORIZATION

H.ORIGINAL BUILDING PERMIT

SITE WORK NOTES

1.SCOPE: CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUB-GRADE PREPARATION, FINISH GRADING AND SECURITY FENCE, AS REQUIRED BY CONSTRUCTION DRAWINGS AND DETAIL DRAWINGS. 2 REFERENCES:

A.DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR THE STATE IN WHICH THE PROJECT IS LOCATED.

B.ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)

C.OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)

D.AASHTO (AMERICAN ASSOCIATION OF STATE TRANSPORTATION OFFICIALS)

3.INSPECTION AND TESTING:

A.FIELD TESTING OF EARTHWORK, AGGREGATE BASE COURSE, COMPATION AND CONCRETE TESTING SHALL BE PERFORMED BY THE CONTRACTOR'S INDEPENDENT

B.ALL WORK SHALL BE INSPECTED AND RELEASED BY THE CARRIER CONSTRUCTION SUPERVISOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE OR DIFFICULT TO INSPECT

4.SITE MAINTENANCE AND PROTECTION:

A.PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF THE WORK UNTIL COMPLETION OF THE CONTRACT.

B.CONTACT THE ONE-CALL UTILITY LOCATION SERVICE PRIOR TO ANY EXCAVATING ACTIVITIES TO HAVE LOCATIONS OF UNDERGROUND UTILITIES VERIFIED.

C.AVOID DAMAGE TO THE SITE INCLUDING EXISTING FACILITIES, STRUCTURES, TREES AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING ITEMS THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.

D.KEEP SITE FREE OF ALL PONDING WATER.

E.CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS AND CHECK DAMS.

F. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

5.BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE WELL DRAINED AT ALL TIMES.

6.ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION. 7.PERFORM ALL SURVEY, LAYOUT, STAKING AND MARKING TO ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE

8.CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE AND ONLY THE IMMEDIATE SURROUNDINGS NECESSARY TO COMPLETE THE WORK. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED AND GRUBBED.

9.REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING IS NOT

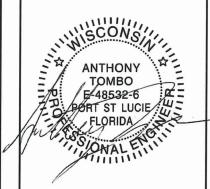
10. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS, AND ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, CULVERT, STREAM CROSSING OR OTHER ITEM NOT SHOWN THAT MIGHT AFFECT OR INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.

SEPARATE AND STOCKPILE ALL EXCAVATED MATERIALS SUITABLE FOR BACK FILL ALL EXCESS EXCAVATED, AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF IN AN AREA DESIGNATED BY THE CARRIER CONSTRUCTION SUPERVISOR. (UNSUITABLE MATERIAL MAY BE REQUIRED TO BE REMOVED FROM THE SITE.)

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



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В	12/08/21	ISSUED FOR REVIEW 90%	JHT	
Α	12/02/21	ISSUED FOR REVIEW 90%	JHT	



HESE PLAYS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE AR MAD SHALL BANKIN THE PROPERTY OF POWDER RAYER DEVELOPMENT SERVICES, LLC WHETHER THE PROJECTS FOR WHICH THEY ARE MADE RE EXECUTED ON TOT. THESE DRAWINGS AND SPECIFICATIONS SHAL NOT BE USED BY ANY PERSON OR SHITTY ON OTHER PROJECTS WITHOUT PRIOR WHITTEN CONSENT OF THE EMPINEER.

SITE INFORMATION:

T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD **CABLE. WI 54821 BAYFIELD**

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-1

ELECTRICAL NOTES

- .THESE NOTES DESCRIBE THE MINIMUM REQUIREMENT FOR INSTALLATION OF ALL ELECTRICAL SYSTEMS. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER
- 2.THE PUBLICATIONS LISTED BELOW FORM PART OF THESE NOTES. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE, EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS:
- A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
- B. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
- C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
- D. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
- E. NFPA 70 (NATIONAL FIRE PROTECTION ASSOCIATION)
- F. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), INCLUDING ALL APPLICABLE AMENDMENTS
- G. U. (UNDERWRITERS LABORATORIES)
- H. APPLICABLE LOCAL CODES AND ORDINANCES
- 3.THE CONTRACTOR SHALL INSTALL UNDERGROUND ELECTRICAL AND TELEPHONE CONDUITS AND CABLE AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- 4.WHEN FINISHED, WORK SHALL BE IN A COMPLETE AND UNDAMAGED STATE, AS REQUIRED IN THE CONTRACT DOCUMENTS.
- 5.ITEMS SHALL BE NEW AND SHALL BE INSTALLED ONLY IF IN FIRST-CLASS CONDITION. 6.SUBSTITUTIONS FOR MATERIAL WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF
- THE CARRIER CONSTRUCTION SUPERVISOR AND BY THE ENGINEER. 7.THE CONTRACTOR SHALL PROVIDE ALL MATERIAL EXCEPT AS SPECIFIED IN THE
- CONTRACT DOCUMENTS. ALL MATERIAL SHALL BE APPROVED AND LISTED BY OR BEAR THE UL LABEL, AND WILL COMPLY WITH ANSI, IEEE AND NEMA STANDARDS WHERE APPLICABLE.

8.CONDUITS:

- A. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC , SIZED AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- B. ALL EXTERIOR ABOVEGROUND CONDUIT SHALL BE PER LOCAL CODE REQUIREMENTS.
- C. ALL INTERIOR CONDUIT SHALL BE EMT WITH COMPRESSION-TYPE FITTINGS.
- D. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR OUTDOOR LOCATIONS WHERE FLEXIBLE CONNECTION IS REQUIRED.
- 9.CABLES CONDUCTORS FOR GENERAL WIRING SHALL BE NEC STANDARD ANNEALED COPPER WIRE WITH NEC 600-VOLT INSULATION.
 - A. #8 AND LARGER-STRANDED TYPE, THHN OR THWN.
 - B. #10 AND SMALLER-SOLID TYPE THHN OR THWN.
 - CONDUCTORS IN CONDUIT IN OR ADJACENT TO HIGH HEAT SOURCE SHALL BE
 - CONDUCTORS IN CONDUITS ABOVE ROOF, ON TOP OF ROOF OR INSIDE BUILT-UP ROOFING MATERIAL SHALL BE TYPE XHHW
- CONVENIENCE OUTLET, UNLESS NOTED OTHERWISE, SURFACE-MOUNTED OUTLETS FOR EXTERIOR LOCATIONS SHALL BE FERALOY, CAD/ZINC ELECTROPLATED WITH THREADED HUBS OR CONDUIT ENTRANCES DRILLED AND TAPPED. ALL COVERS SHALL BE SELF-CLOSING AND GASKETED. SURFACE MOUNTED OUTLETS FOR INTERIOR LOCATIONS SHALL BE GALVANIZED, PRESSED STEEL WITH COVER PLATE, SIERRA PLASTIC STYLE, IVORY COLOR.
- 1. COAXIAL CABLE SUPPORTS 1. ALL WAVE GUIDE SUPPORTS SHALL BE MANUFACTURED TO MEET ALL COAX MINIMUM BENDING REQUIREMENTS. SUPPORTS SHALL BE PROVIDED EVERY 3'-0" ON CENTER.
- 12. BEFORE LAYING OUT WORK, EXERCISE PROPER PRECAUTION TO VERIFY EACH MEASUREMENT.
- 13. USE EXTREME CAUTION BEFORE EXCAVATING IN EXISTING AREAS TO LOCATE EXISTING UNDERGROUND SERVICES.
- A VISUAL CHECK OF ELECTRICAL AND TELEPHONE CABLES, CONDUITS AND OTHER ITEMS SHALL BE MADE BY A CARRIER CONSTRUCTION SUPERVISOR BEFORE THESE ITEMS ARE PERMANENTLY INSTALLED.
- 15. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR 24 HOURS PRIOR TO TRENCH BACK FILL.
- TRENCHING, BACK FILLING, BEDDING AND COMPACTING SHALL COMPLY WITH SITE
- 17. DIG TRENCHES TO THE REQUIRED DEPTH AS SHOWN ON THE DRAWINGS WITHOUT POCKETS OR DIPS. REMOVE LARGE STONES FROM THE BOTTOM OF THE TRENCH AND FIRMLY TAMP LOOSE FILL IN THE BOTTOM BEFORE CONDUIT IS LAID.
- 18. INSTALL UNDERGROUND CONDUIT WITH A MINIMUM 3-INCH TO 100-FOOT SLOPE OR TO A SLOPE SHOWN ON THE DRAWINGS.
- UNLESS SHOWN OTHERWISE ON THE DRAWINGS, TERMINATE AND CAP ALL STUB-UPS 12 INCHES ABOVE FINISHED GRADE ELEVATION. 20. WHEREVER CONDUITS CROSS UNDER ROADWAYS, USE GALVANIZED RIGID STEEL CONDUITS IN ALL CASES, EXTENDING 5 FEET BEYOND THE EDGE OF THE ROAD BED.
- MINIMUM DEPTH FOR CONDUIT SHALL BE 4 FEET BELOW ROADWAY GRADE. MARK UNDERGROUND CONDUITS WITH A 6-INCH WIDE RED POLYETHYLENE TAPE BURIED 6 INCHES UNDER THE SURFACE DIRECTLY OVER THE CONDUITS. MARK THE TAPE THUS: CAUTION-BURIED ELECTRICAL CABLE.
- 22. FOR SEALING CONDUITS, USE ONLY NON-THERMOPLASTIC COMPOUNDS SUCH AS J.M. DUXSEAL, OR AN CARRIER—APPROVED SUBSTITUTE. THE COMPOUND SHALL HAVE NO EFFECT ON RUBBER OR RUBBER—LIKE INSULATIONS, LEAD, ALUMINUM OR FERROUS ALLOYS; IT SHALL BE INSOLUBLE IN WATER AND WITHSTAND MAXIMUN TEMPERATURE RANGES OF THE LOCALITY.
- 23. COAXIAL REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- ANTENNA REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- LNA/MHA REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.

GROUNDING NOTES

- 1. THIS SPECIFICATION PRESCRIBES THE REQUIREMENTS FOR FURNISHING, INSTALLATION TESTING OF THE GROUNDING CABLE, CONNECTORS AND ASSOCIATED COMPONENTS AS INDICATED ON THE DRAWINGS
- 2.APPLICATIONS OF ELECTRICAL GROUNDING AND BONDING WORK SPECIFIED IN THIS SPECIFICATION INCLUDE THE FOLLOWING:
- A. FENCE AND GATE POSTS
- ELECTRICAL POWER SYSTEMS
- GROUNDING ELECTRODES
- GROUND BUS BAR
- SERVICE EQUIPMENT
- **ENCLOSURES** MONOPOLE / LATTICE TOWER
- H. ICE BRIDGE
- 3.REFERENCES: THE PUBLICATIONS LISTED BELOW FORM PART OF THESE DRAWINGS. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THESE DRAWINGS ARE ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THESE DRAWINGS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.
 - A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - B. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
 - C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
 - D. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - E. NESC (NATIONAL ELECTRICAL SAFETY CODE), LATEST EDITION
 - F. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
 - G. UL (UNDERWRITERS' LABORATORIES)
 - H. APPLICABLE LOCAL CODES AND ORDINANCES
- 4.MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED; WITH ASSEMBLY OF MATERIAL, INCLUDING, BUT NOT LIMITED TO, GROUNDING ELECTRODES, BONDING JUMPER AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE OF COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH NEC, UL, AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED. A. GROUNDING:
 - I. THE EQUIPMENT SHALL BE GROUNDED AS FOLLOWS, AS SHOWN ON THE DRAWINGS AND IN COMPLIANCE WITH NEC ARTICLE 250 AND STATE AND
 - II. GROUND RODS AND QUANTITY SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL PERFORM A GROUND-RESISTANCE-TO-EARTH TEST. SHOULD THE INSTALLATION HAVE A RESISTANCE OF 5 OHMS OR MORE, CONTRACTOR SHALL INSTALL MORE GROUND RODS AS NECESSARY SO THAT THE OVERALL GROUND-TO-EARTHRESISTANCE IS LESS THAN 5
 - III. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NEC'S "STANDARD OF INSTALLATION," AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.
 - IV. COORDINATE WITH OTHER ELECTRICAL WORK AS NECESSARY TO INTERFACE INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS. V. INSTALL GROUND CONDUCTORS A MINIMUM OF 36 INCHES BELOW FINISHED
 - GRADE WHICH ENCIRCLE THE TOWER AND EQUIPMENT, AND ARE CONNECTED TO EACH DRIVEN GROUND ROD. GROUND TRENCH SHALL BE AT LEAST 24 INCHES AWAY FROM FOUNDATIONS.
 - VI. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUE FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUEING REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUE SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
 - VII. APPLY CORROSION-RESISTANT FINISH (NO-OX OR CARRIER-APPROVED EQUIVALENT) TO FIELD—CONNECTIONS, AT COPPER GROUND BARS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATING HAVE BEEN DESTROYED, OR ARE SUBJECTED TO CORROSIVE AND/OR OXIDATION
 - VIII. ON EXISTING LATTICE TOWERS, WATER TOWERS AND ROOF TOPS, WHEN A NEW GROUNDING SYSTEM IS INSTALLED, THE CONTRACTOR SHALL TIE THE NEW GROUND SYSTEM TO THE EXISTING WATER TOWER, LATTICE TOWER STRUCTURAL STEEL OR BUILDING STRUCTURAL STEEL AS THE CASE MAY BE AT A MINIMUM OF ONE LOCATION SO THAT THEY ARE AT THE SAME VOLTAGE POTENTIAL
 - ALL TOWER AND TOP GROUND WIRES SHALL BE SUPPORTED EVERY TWO FEET MAXIMUM

- I. GROUND RODS SHALL BE 5/8" DIAMETER WITH 8'-0" EMBEDMENT MIN., COPPER CLAD DRIVEN ROD(S).
- II. GROUND ROD(S) SHALL BE LOCATED AT THE PERIMETER OF EQUIPMENT AS TO CREATE A GROUND RING AS SHOWN ON THE DRAWINGS
- III. GROUND ROD(S) SHALL BE SPACED AT A MINIMUM OF 8'-0" AND A MAXIMUM SPACING OF 10'-0" ON CENTER. IV. GROUND RODS SHALL BE BURIED BELOW THE FROSTLINE. AT NO TIME
- SHALL THIS DEPTH BE LESS THAN 18" BELOW FINISHED GRADE. V. GROUND RODS WHICH CANNOT BE DRIVEN STRAIGHT DOWN THE ENTIRE 10'-0", SHALL BE DRIVEN AT AN ANGLE NOT GREATER
- THAN 45 DEGREES (NEC 250-83 AND 250-84). VI. GROUND ROD LOCATIONS SHALL BE NOTED ON THE AS-BUILT DRAWING

COMPLETE WITH DIMENSIONS

- VII. PROVIDE GROUND TEST WELLS SHOWN ON THE CONSTRUCTION DRAWINGS.
- I. ALL DIRECT BURIED GROUND CONDUCTORS SHALL BE TINNED SOLID (#2 AWG) WIRE. BURIED GROUND CONDUCTOR SHALL BE INSTALLED AT MINIMUM DEPTH OF 36" BELOW GRADE.
- II. ALL SUB GRADE GROUND CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES, TEES AND ALL GROUND ROD CONNECTIONS. MOLD, WELD KITS, ETC., SHALL BE MANUFACTURED BY CADWELD AND SHALL BE I NSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.
- III. GROUND CONDUCTORS SHALL BE ROUTED IN THE SHORTEST AND C STRAIGHTEST DISTANCES POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. CONDUCTORS SHALL BE INSTALLED AS FOLLOWS:
- IV. ALL GROUND CONDUCTORS SHALL FOLLOW A CONTINUOUS DOWNWARD PATTERN TO THE GROUND SOURCE. (NEVER RUN GROUND CONDUCTOR IN AN UPWARD DIRECTION.)
- V. CONDUCTORS SHALL BE INSTALLED WITH A MINIMUM OF 12-INCH MINIMUM
- VI. WHEN THE MINIMUM BENDING RADIUS CANNOT BE ACHIEVED, GROUND CABLES SHALL BE ROUTED AT 90-DEGREE BENDS WITH THE USE OF EXOTHERMIC CONNECTIONS AT 90 DEGREES, WITH THE INTENT IS TO ELIMINATE THE CABLE BEND RADIUS AND REPLACE THE RADIUS WITH AN

5.PREPARATION:

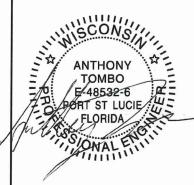
- A. ALL SURFACES TO WHICH GROUND CONNECTIONS WILL BE MADE SHALL BE FREE OF PAINT, GALVANIZING DIRECT CORROSION, ETC.
- B. ALL METAL SURFACES EXPOSED ON GROUNDING SHALL BE EITHER COLD GALVANIZE, OR PAINTED TO MATCH ORIGINAL SURFACE.
- 6.EXAMINE AREAS AND CONDITIONS UNDER WHICH ELECTRICAL GROUNDING AND BONDING CONNECTIONS ARE TO BE MADE AND NOTIFY CARRIER CONSTRUCTION SUPERVISOR AND ENGINEER OF RECORD IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR A MINIMUM OF 24 HOURS PRIOR TO TRENCH BACK FILL. ALL WORK DONE BELOW FINISHED GRADE SHALL BE INSPECTED BY THE CONSTRUCTION SUPERVISOR DURING THAT PERIOD. 7. GROUND TESTING:
- A. THE CONTRACTOR SHALL TEST THE GROUND ELECTRODE ROD RESISTANCE IN ACCORDANCE WITH THE METHODS OF MEASUREMENT DEFINED IN THE FALL OF POTENTIAL METHOD.
- B. TEST INSTRUMENTS SHALL OPERATE AT A FREQUENCY OTHER THAN 60 HERTZ AND SHALL CONTAIN STRAY CURRENT AND DC FILTERS, FAULT CURRENT PROTECTION AND HAVE SENSITIVITY TO OPERATE A LOW SIGNAL STRENGTH.
- C. PRIOR TO TESTING, THE CONTRACTOR SHALL DE-ENERGIZE ALL POWER SOURCES, DISCONNECT THE ELECTRODE CONDUCTOR FROM THE GROUND ROD, WEAR HIGH VOLTAGE RUBBER SAFETY GLOVES.
- D. GROUND TESTS ARE TO BE PERFORMED BY QUALIFIED PERSONS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE EQUIPMENT AND THE HAZARDS INVOLVED.
- E. AN INDEPENDENT, APPROVED OUTSIDE FIRM SHALL PERFORM THE GROUND TEST AS OUTLINED. ALL TEST RESULTS SHALL BE FORWARDED TO THE CARRIER CONSTRUCTION SUPERVISOR FOR APPROVAL

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COA #: 3588 - 1**REVISIONS** REV DATE DESCRIPTION 0 12/29/21 100% CONSTRUCTION B 12/08/21 ISSUED FOR REVIEW 90% A 12/02/21 ISSUED FOR REVIEW 90%



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SITE INFORMATION

T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: **CABLE WI-TELEMARK**

15143 NORDMORE ROAD **CABLE, WI 54821 BAYFIELD**

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-2



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Α	12/02/21	ISSUED FOR REVIEW 90%	JHT



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SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:



THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND DIMENSIONS SHOWN SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. POWDER RIVER DEVELOPMENT SERVICES, LLC. DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, SETBACKS, AND DIMENSIONS SHOWN.

GROUND MOUNTED EQUIPMENT:
CHANGES ARE TO BE MADE TO GROUND MOUNTED EQUIPMENT
AS PART OF THE ANCHOR RFDS.

PROPOSED EQUIPMENT:
(2) ASIB, (2) ASIK, (3) ABIA, (6) ABIL, (3) ABIC, (2) AMIA,
(1) VOLTAGE BOOSTER w/ (1) AMPS, (1) CSR IXRE V2
(GEN2), (1) LB3 BATTERY CABINET, (1) HPL3 CABINET, AND

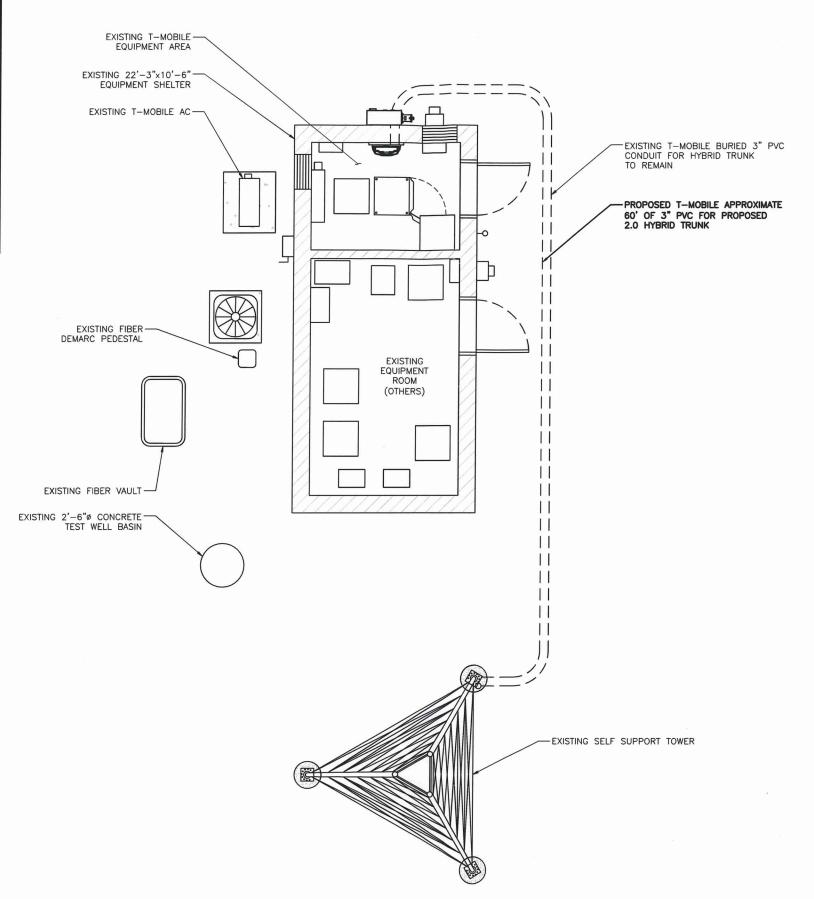
(2) HCS 2.0 JUNCTION BOXES.

RELOCATE EQUIPMENT: (1) FSMF.

EQUIPMENT TO BE REMOVED:

1) FSMF, (1) 1.0 COVP, (1) SSC, (1) FLEXI TABLE, AND

(1) CSR 7705 SAR A.



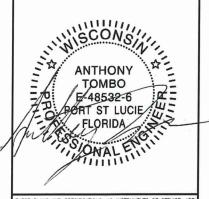


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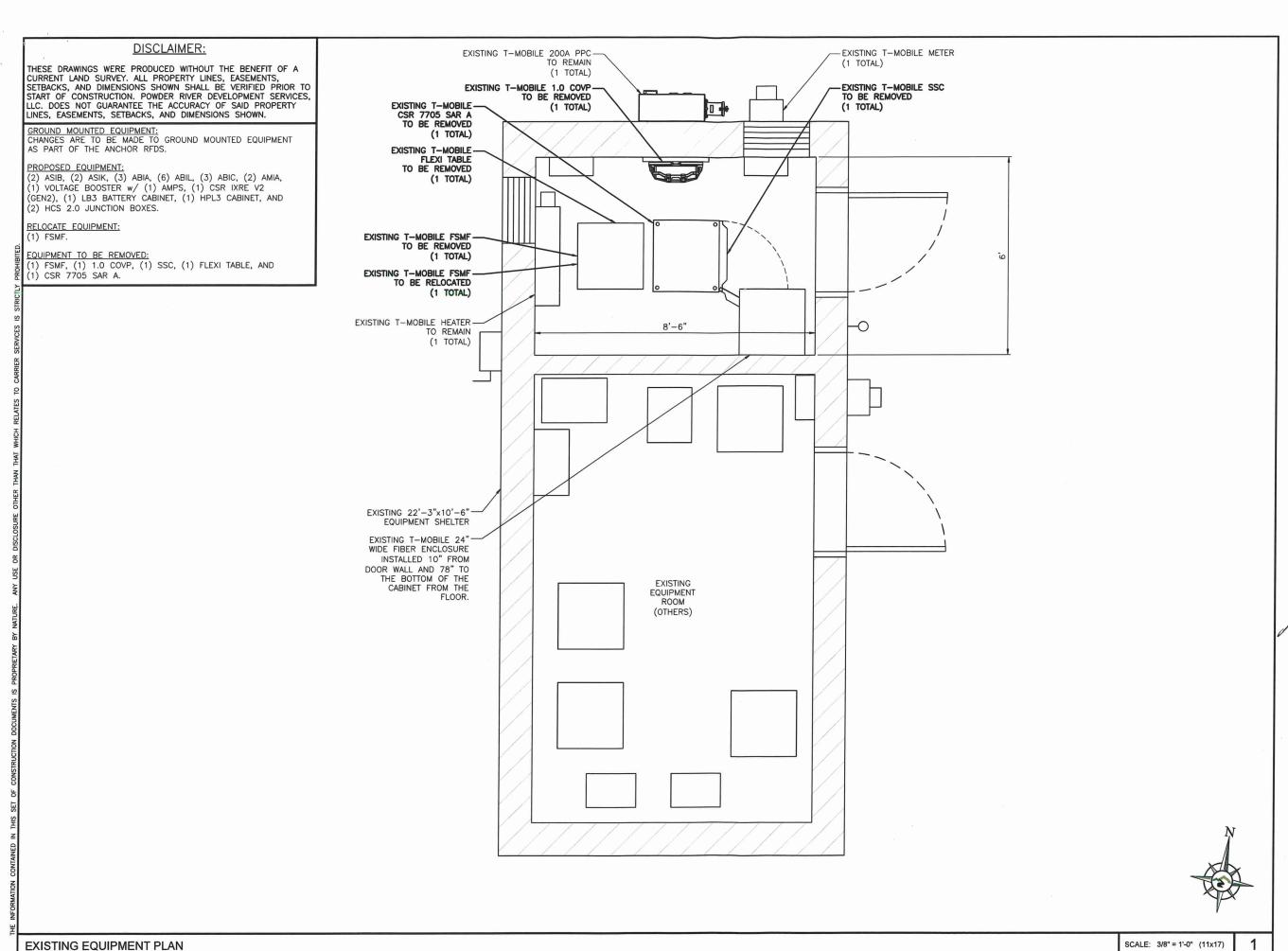
SITE PLAN

SHEET NUMBER:

C-1.1

SITE PLAN

SCALE: 3/16" = 1'-0" (11x17)

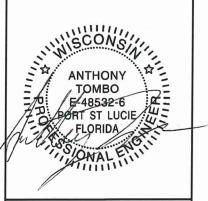




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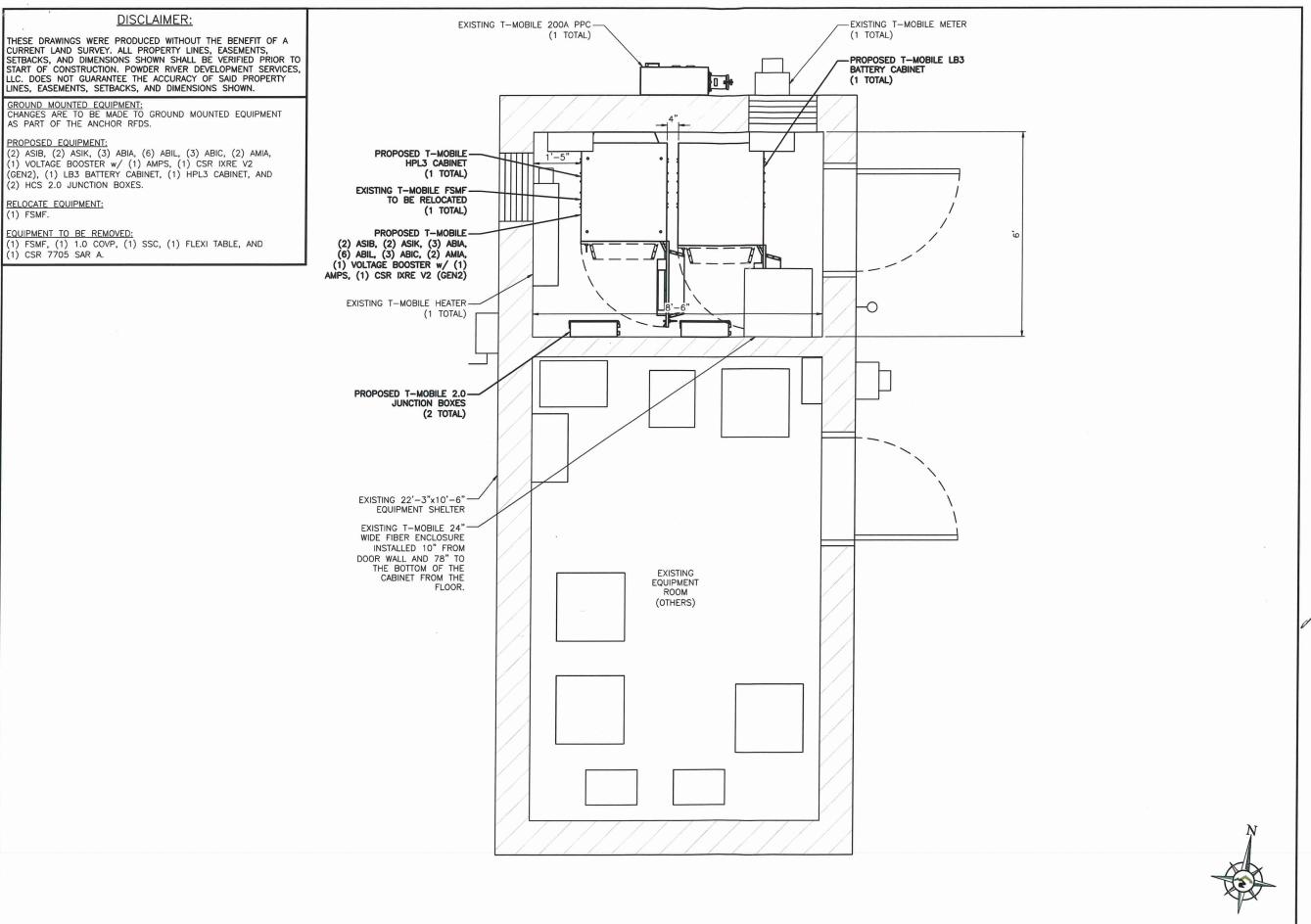
T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

EXISTING EQUIPMENT PLAN

SHEET NUMBER:



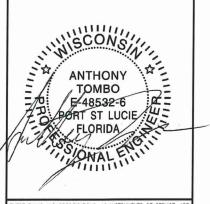
PROPOSED EQUIPMENT PLAN



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15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

PROPOSED EQUIPMENT PLAN

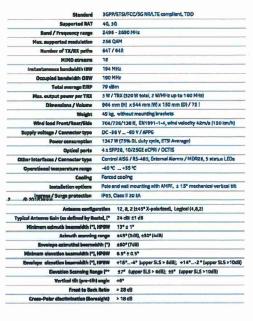
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SCALE: 3/8" = 1'-0" (11x17)

C-2.1



NOKIA



FFVV-65C-R3-V1



MANUFACTURER: COMMSCOPE MODEL: FFVV-65C-R3-V1 WEIGHT: 124.561 LBS DIMENSIONS: HxWxD: 95.945" x 25.197" x 9.252"

FREQUENCY: 617MHz-894 MHz 1695-2690 MHz CONNECTION: (8) 4.3-10 FEMALE

5 ANTENNA INFORMATION SCALE: N.T.S.

4T4R Dual Band 4x30W Full Band/Full Band

Yes (Multi Band)

83.7 lbs with no covers & brackets Approx 32.6L 560 mm × 308 mm × 189 mm 4.3-10+ (4 ports)

SCALE: N.T.S.

SCALE: N.T.S.

3

MANUFACTURER: NOKIA MODEL: AEHC AIRSCALE MAA 64T64R 192AE B41 320W

DIMENSIONS: HxWxD: 37.95" x 21.42" x 5.91" FREQUENCY: 2496 - 2690 MHz

ANTENNA INFORMATION

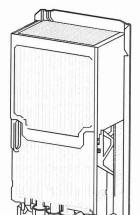
ANTENNA ATTACHMENT

SCALE: N.T.S.

SCALE: N.T.S.

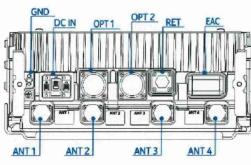
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1



RADIO INFORMATION

NOKIA



MANUFACTURER: NOKIA MODEL: AHFIG WEIGHT: 70.6 LBS

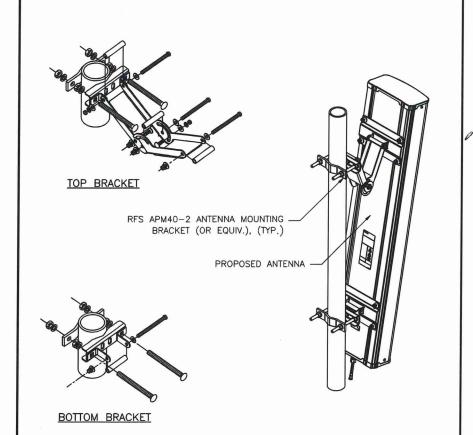
DIMENSIONS: HxWxD: 28.7" x 12.9" x 5.6" FREQUENCY: 1710 - 1780 MHz

SCALE: N.T.S.

RADIO MOUNTING DETAIL

ANTENNA MOUNTING BRACKET, SUPPLIED W/ ANTENNA (TYP) PROPOSED T-MOBILE ANTENNA PROPOSED RADIO W/ MFG. SUPPLIED MOUNTING HARDWARF PROPOSED T-MOBILE ANTENNA MOUNTING PIPE

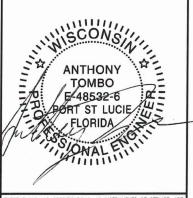
WEIGHT: 108.027 LBS



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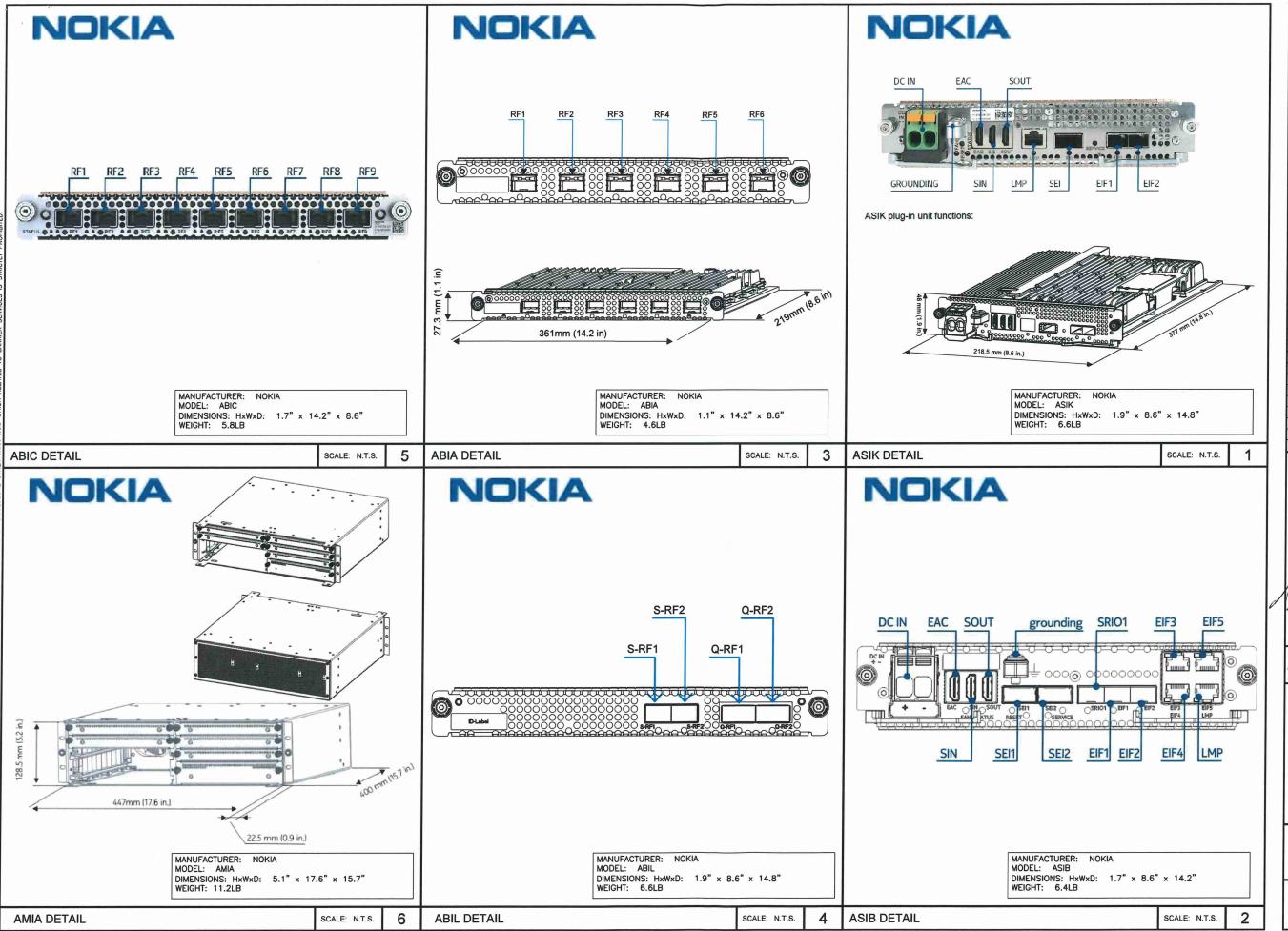
T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

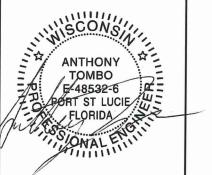


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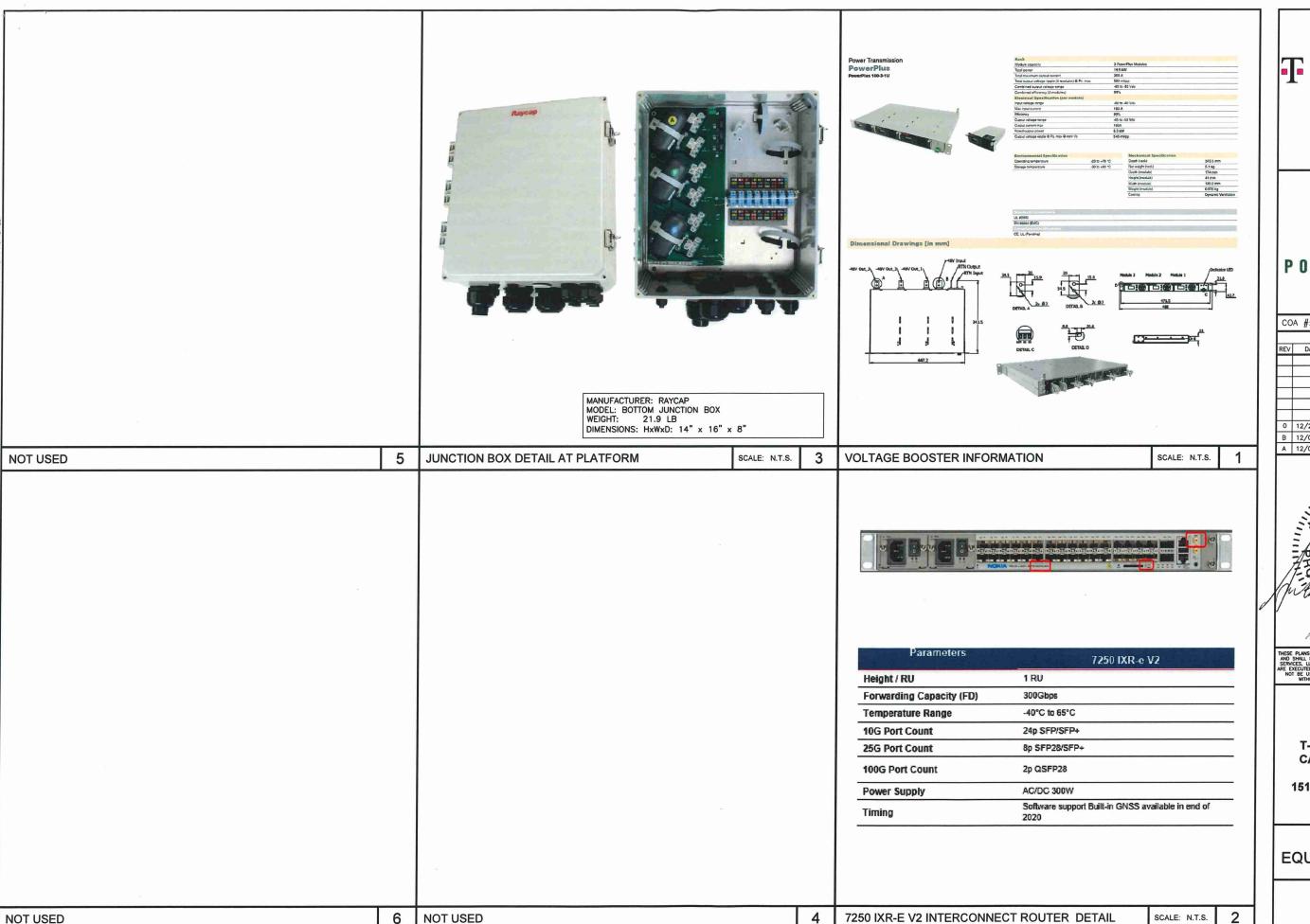
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EQUIPMENT DETAILS

SHEET NUMBER:





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SITE INFORMATION:

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T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

Tower Application

Main Components

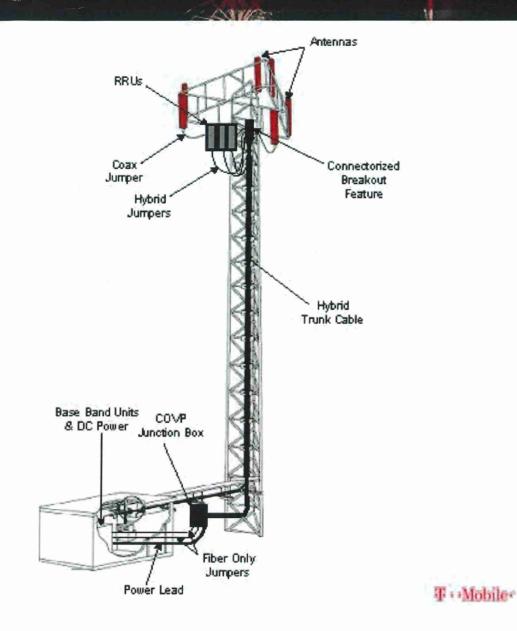
- Hybrid trunk cable with integral breakout feature at the top
- Bottom OVP junction box
- Hybrid jumper cables
- In-line OVP (if needed)
- Installation hardware

Applications

- Nokia Airscale AAFIA, AHFIB, AHLOA
- Nokia legacy Flexi FRIE, FXFB, FRIA/B, FRIG, FSME/F, ESMB, FHOA, FXFA, FXFB, FXFC, FRIJ

Slide / 8

T-Mobile Internal



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A1N0961A

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15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

| EQUIPMENT DETAILS

SHEET NUMBER:

C-6

CABLE SPECIFICATIONS

SCALE: N.T.S.

Specifications

HP-Large 3 Power Cabinet Construction Aluminum enclosure Dimensions (W x H x D) 30 x 72 x 36 in. (752 x 1829x 914mm), Depth with door: 43 in. (1092mm) ~551 lb6 (~270kg) (without customer equipment or batteries) Total Equipment space, 30RU: Internal rack dimension Hortzontal rack: 19" x 27RU Vertical rack: 19" x 3RU Power System space: 23" x 12RU Mounting options Pad-mount, plinth option

Polyester Powder Paint (Tan) UL Listed , IEC/ EN 60950 -40°C to +50°C (-40°F to +122°F) with solar load. IP55

Protection class designed to GR-487

Thermal management

5°C delta T: 70 dBA @ 6000W, 65dBA @5000W heat load Humidity (relative)

95%,non-condensing (Max.)

Cooling Equipment: Direct Air Cooling, 6000W capacity, 5°C delta T (6) centrifugal redundant fans, (3) Merv-13 or optional GORE filters front door (3) Merv-13 filters

Heating Equipment: Forced air heating (2) 1000W AC heaters

4. Equipment	
	Knock-out plate on each upper side wall
Cable Entry	Additional knockouts each side
	(1) 3" conduit hole with hole plug
Door latch	3 point latching, 5/16 nut driver tool, pad-locking capability
Primary ground	10 double-hole 1/4"-20 threaded holes on 5/6" center ground bar
Lifting Ears	4 Lifting Tabs
Standard equipment	AC Load Center: 240V split phase, dual feed / (1) 200A + (1)100A 208V 3-phase, single feed / (1) 200A AC Surge Protection for each breaker feed GFCI Receptacle 120V (6 form-C) Alarm Termination block
	(1) Thermal Probe
	605A/ 54V (336kW) redundant Power System with DIN rail distribution
	12 rectifer positions (3x55A DPR3000 rectifers included)
	52 poles for load (2x10A, 3x50A, and 6x100A load breakers included) 15 poles for battery
	(2) 98350 generator connector
	LVD over-ride switch
	(2) 98175 Sattery connections (2) 98350 Sattery connections
Front	Door: (6) DC powered centrifugal fans with (3) MERV-13 filters, (GORE option)
	Clogged Filter alarm pressure switch
	Door Intrusion alarm
	(2) 1000W AC powered heaters
	LED Interior cabinet light
	Hatch: Exhaust vent with (3) MERV-13 filters
5. Ordering information	n
Cabinet	ESOA600-HCU01 HP-Large 3 600A Power / Equipment Cabinet

TPS1020028AU17 Orion TOUCH Controller

48V / 56A 3000W, 96.4%, CAN communication

37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3 cabinets

ESR-48/50A A-T

Delta Group Website: www.deltaww.com United States of America & Canada: Delta Electronics U.S. Inc. 2925 E. Plano Parkway Plano, TX (Texas) 75074 Sales and Support: Sales: DEUSTPS.Sales@deltaww.com Orders: DEUSTPS. Orders@deltaww.com 1-877-DELTA-08 option 3 (877-335-8208 option 3) Installation Services: DEUSTPS.Services@deltaww.com DEUSTPS.RMA@deltaww.com

Front Door and Rear Hatch Open

"All specifications are subject to change without prior notice.



HP-Large 3 Power Cabinet

Compact design for equipment, power and battery:

- · 30RU supports 3 radios and transport equipment
- 600A @ -48V power system
- ORION Touch screen Controller
- · Rear Access Hatch

Direct air cooling solution, 6000W capacity, 5°C delta T Easy slide-in filter replacement for Merv-13 or Gore filter connects with:

- LB3, 4-string battery cabinet
- V2, Expansion equipment and battery cabinet

www.deltaww.com



Product Features

- Slimline high efficiency rectifier

- · SB3, 2-string battery cabinet

Designed to GR-487 specifications

T - Mobile • °

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 OFFICE: 612.701.2069



COA #:		358	38-1
		REVISIONS	
REV	DATE	DESCRIPTION	INT
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0	12/29/21	100% CONSTRUCTION	JAS
В	12/08/21	ISSUED FOR REVIEW 90%	JHT
Α	12/02/21	ISSUED FOR REVIEW 90%	JHT

FOR REFERENCE ONLY

SITE INFORMATION:

T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: **CABLE WI-TELEMARK**

15143 NORDMORE ROAD **CABLE. WI 54821** BAYFIELD

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-7

HPL3 CABINET DETAILS

Controller (Spare)

SCALE: N.T.S.

Specifications

Model	LB3 (Large Battery 3 Cabinet)				
1. General					
Construction	Aluminium enclosure				
Dimensions	30 x 72 x 35 in. (381 x 1829x 889mm),				
(WxHxD)	Depth with Door: 41.2 in. (1047mm)				
Weight	~540 lbs (~245kg) (without batteries)				
Internal rack dimension	4 battery trays to support up to 4 strings 210Ah batteries				
Mounting options	Pad-mount, plinth option				
Finish	Polyester Power Paint (Tan)				
Safety	UL Listed, IEC / EN 60950				
2. Environment					
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar load				
Protection class	IP55 designed to GR-487				
Acoustics	65dBA				
Humidity (relative)	95%, non-condensing (Max.)				
3. Thermal Managemen					
Cooling Equipment:	Direct Air Cooling				
Heating Equipment	Forced air heating (1) 1000W AC heaters				
4. Equipment					
	Knock-out plate on each upper side wall				
Cable entry	Additional knockouts each side				
Door latch	3 point latching, 5/16 nut driver tool, pad-locking capability				
Primary ground	10 double-hole 1/4"-20 threaded holes on 5/8" center ground bar				
Lifting Ears	4 Lifting Tabs				
Plinth	Optional 6* plinth available				
I MILET	AC Load Center:				
	30A heater breaker				
	Left or Right side AC entry options				
	AC Surge Protection (option)				
	DC Load Center:				
	600A bulk feed bus bar				
	(4) 200A bolt in battery breakers				
Standard equipment	(4) 2-hole lug landings, (2 output/2 input from second battery cabinet)				
Starioard equipment	Temp Probes				
	Battery Trays:				
	(4) battery trays				
	(4) 48V battery strings (210Ah max each)				
	Connection kit:				
	(1) DC 10A Breaker supplied (install onto HPL3 Power Cabinet)				
	LED interior cabinet light				
F	(2) DC powered Axial fans with (1) F5 Filters				
Front Door:	Door intrusion alarm				
	(1) 1000W AC powered heaters				
5. Ordering information					
Cabinet	ESOFD15-ECV04 Large Battery 3 (LB3) Cabinet				
Plinth, 6"	37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3				









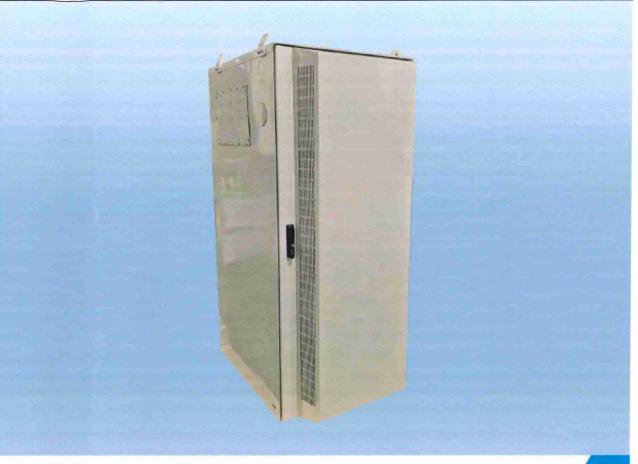
Product Features

Compact design for battery strings:

- · Direct air cooling solution
- Supports four strings of -48V VRLA batteries up to 210Ah
- 600A rated bus bar with 200A breaker per string
- Bulk Input / Output with ability to daisy chain cabinets
- · Front to Front Air Flow
- Corrosion resistant aluminum construction
- · Powder coated high gloss finish
- Designed to meet GR-487



www.deltaww.com



COA #: 3588-11 REVISIONS

T - Mobile -

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

REV DATE DESCRIPTION 0 12/29/21 100% CONSTRUCTION B 12/08/21 ISSUED FOR REVIEW 90% A 12/02/21 ISSUED FOR REVIEW 90%

FOR REFERENCE ONLY

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, AR AND SHALL REMAIN THE PROPERTY OF POWDER NEWS DEVELOPMENT ARE EXECUTED ON NOT. THESE DRAWNGS AND SPECIFICATIONS SMA NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS WITHOUT PROR WRITTEN CONSENT OF THE EMOIREET.

SITE INFORMATION: T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: **CABLE WI-TELEMARK**

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-8

HP3 BATTERY CABINET DETAILS

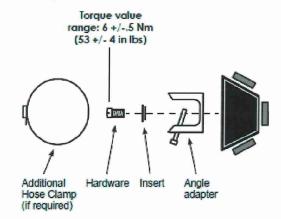
*All specifications are subject to change without prior notice.

SCALE: N.T.S.

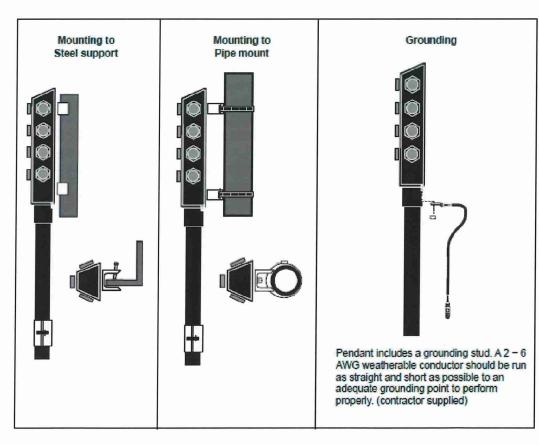
Technical Publication

COMMSCOPE®

Section 4: Mounting / Grounding







Visit www.commscope.com for complete specifications on all the products listed

Bulletin # 7727406 Rev. C.

Technical Publication

COMMSCOPE°

Cable

Length

Section 2: General Specifications

Cable Type	FD2606-24S55-XXX
Brand	HELIAX® FiberFeed®
Center Conductor Gauge	6 AWG
Conductors, quantity	6
Total Fiber Quantity	24
Shielding Type	Corrugated aluminum
Fiber Type	Bend insensitive single mode fiber (G.657.A2)
Construction Type	Direct Breakout
	1
Dimensions	
Cable Weight	1450.0 kg/km 970.0 lb/kft
Diameter Over Jacket	30.50 mm 1.20 in
Breakout Length, Fiber, end 1	HQLC Connectors
Breakout Length, Power, end 1	HQLC Connectors
Breakout Length, Fiber, end 2	826 mm 33 in
	775 mm 31 in
Breakout Length, Power, end 2	610 mm 24 in
Physical Specifications	
Minimum Bend Radius, loaded	(00 / man 1 0 / h
Minimum Bend Radius, iodaed Minimum Bend Radius, unloaded	609.6 mm 24 in
Tensile Load, long term, maximum	304.8 mm 12 in
Tensile Load, short term, maximum	1068 N 240 lbf
rensile Loca, shorr lettit, maximom	3559 N 800 lbf

Cable Type	FD21206-48S55-XXX
Brand	HELIAX [®] FiberFeed [®]
Center Conductor Gauge	6 AWG
Conductors, quantity	12
Total Fiber Quantity	48
Shielding Type	Corrugated aluminum
Fiber Type	Bend insensitive single mode fiber (G.657.A2
Construction Type	Direct Breakout
Dimensions	
Cable Weight	2544.0 kg/km 1710.0 lb/kft
Diameter Over Jacket	39.38 mm 1.55 in
Breakout Length, Fiber, end 1	HQLC Connectors
Breakout Length, Power, end 1	HQLC Connectors
Breakout Length, Fiber, end 2	826 mm 33 in
	775 mm 31 in
Breakout Length, Power, end 2	610 mm 24 in
Physical Specifications	
Minimum Bend Radius, loaded	787.4 mm 31.0 in
Minimum Bend Radius, unloaded	472.4 mm 18.6 in

Tensile Load, long term, maximum 801 N | 180 lbf Tensile Load, short term, maximus 2669 N | 600 lbf

6 AWG

conductors

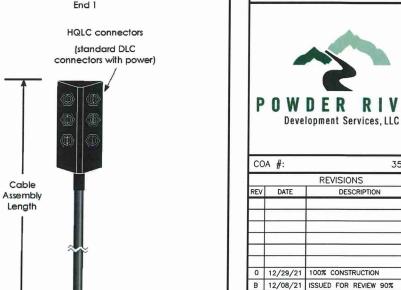
DLC

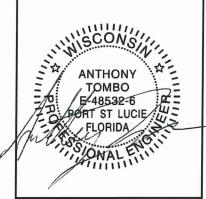
connectors

1

End 2

6 RRU assembly shown





A 12/02/21 ISSUED FOR REVIEW 90%

T - Mobile •

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

Development Services, LLC

REVISIONS

3588-11

SITE INFORMATION: T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

CABLE & PENDANT SPECIFICATIONS

SHEET NUMBER:

C-9

Visit www.commscope.com for complete specifications on all the products listed

CABLE & PENDANT SPECIFICATIONS







SITE PHOTO 3 SITE PHOTO 1







SITE PHOTO 4 SITE PHOTO 2

T - Mobile •

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



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В	12/23/21	ISSUED FOR REVIEW 90%	JHT						
<u> </u>	12/00/21	ISSUED FOR REVIEW 90%	JIHT						

FOR REFERENCE ONLY

HESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, AR AND SHALL REBAIN THE PROPERTY OF POWER RIVER DEVELOPMENT SERVICES, LLC WHETHER THE PROJECTS FOR WHICH THEY ARE MADE RE EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHAL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER

> SITE INFORMATION: T-MOBILE SITE #: A1N0961A

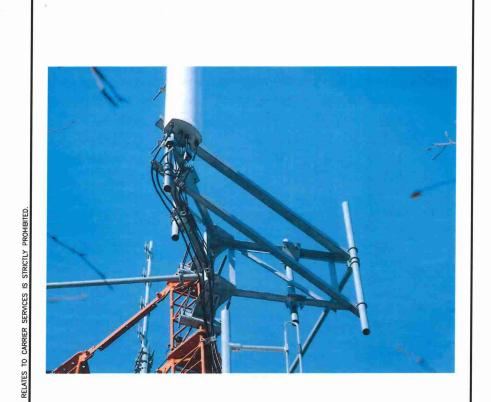
T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

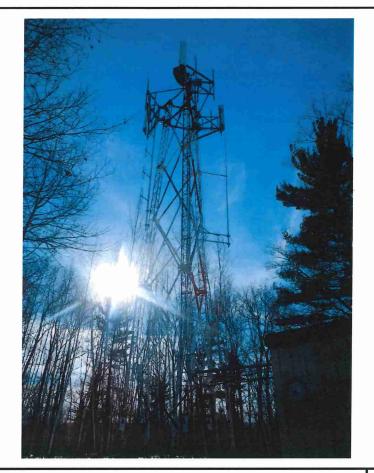
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SITE PHOTOS

SHEET NUMBER:







SITE PHOTO 5 SITE PHOTO 3 SITE PHOTO 1







SITE PHOTO 6 SITE PHOTO 4 SITE PHOTO 2

T-Mobile-

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



СО	A #:	3588-11						
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В	12/08/21	ISSUED FOR REVIEW 90%	JHT					
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> SITE INFORMATION: T-MOBILE SITE #:

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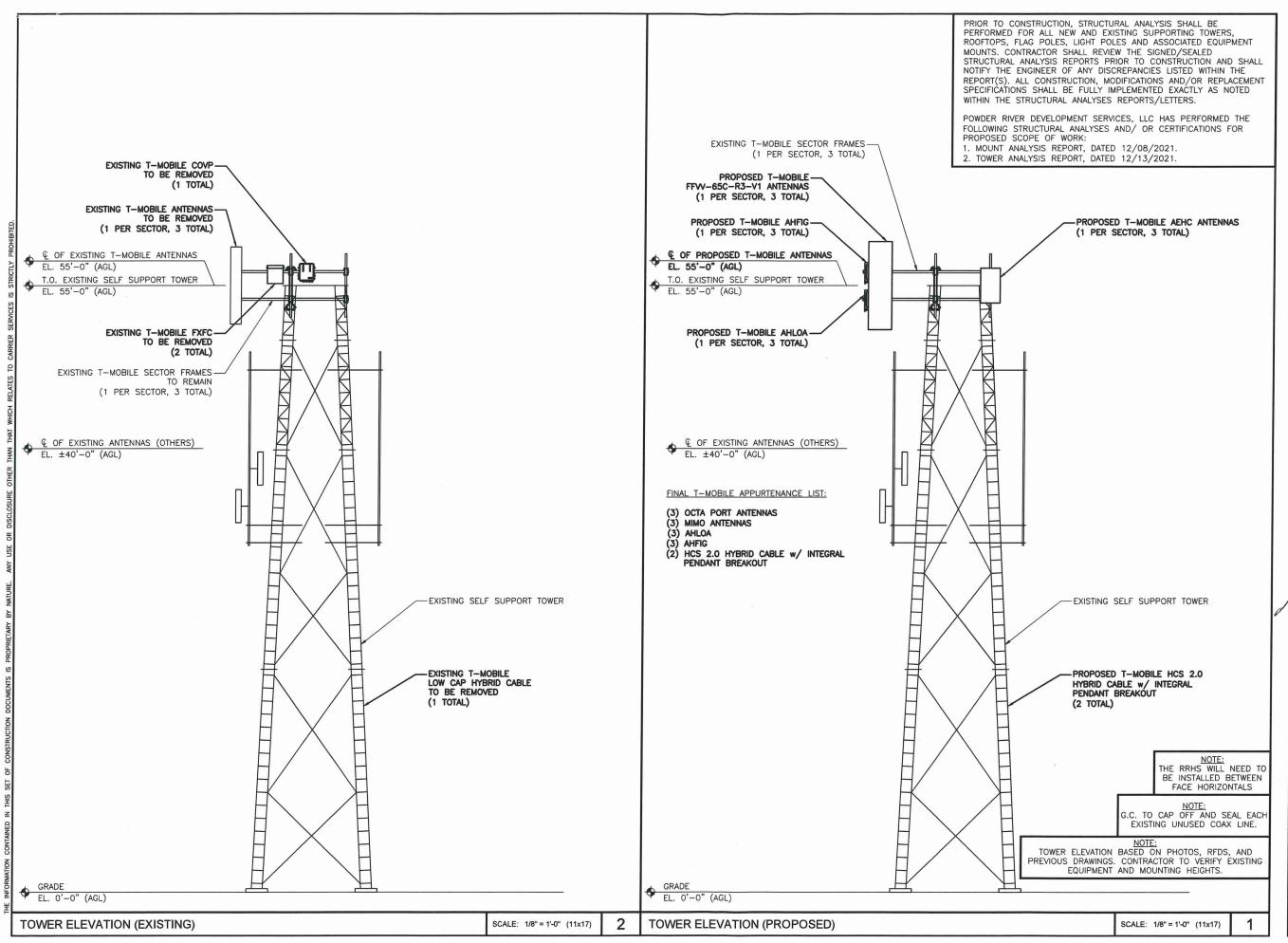
T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

SITE PHOTOS

SHEET NUMBER:

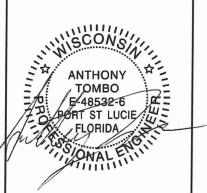


T - Mobile - *

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



CO	A #:	3588-11									
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T-MOBILE SITE NAME: CABLE WI-TELEMARK

15143 NORDMORE ROAD CABLE, WI 54821 BAYFIELD

SHEET TITLE:

TOWER ELEVATIONS

SHEET NUMBER:

A-1

NOTE:

RETURN ALL OLD / UNUSED EQUIPMENT TO THE CTDI
WAREHOUSE PRIOR TO PICKING UP NEXT SITE PACK.

ANTENNA AND COAXIAL CABLE SCHEDULE

<u>NOTE:</u> G.C. TO CAP OFF AND SEAL EACH EXISTING UNUSED COAX LINE.

PRIOR TO CONSTRUCTION, STRUCTURAL ANALYSIS SHALL BE PERFORMED FOR ALL NEW AND EXISTING SUPPORTING TOWERS, ROOFTOPS, FLAG POLES, LIGHT POLES AND ASSOCIATED EQUIPMENT MOUNTS. CONTRACTOR SHALL REVIEW THE SIGNED/SEALED STRUCTURAL ANALYSIS REPORTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES LISTED WITHIN THE REPORT(S). ALL CONSTRUCTION, MODIFICATIONS AND/OR REPLACEMENT SPECIFICATIONS SHALL BE FULLY IMPLEMENTED EXACTLY AS NOTED WITHIN THE STRUCTURAL ANALYSES REPORTS/LETTERS.

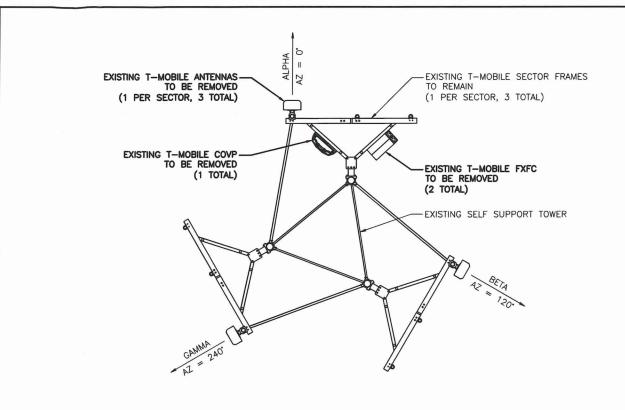
POWDER RIVER DEVELOPMENT SERVICES, LLC HAS PERFORMED THE FOLLOWING STRUCTURAL ANALYSES AND/ OR CERTIFICATIONS FOR PROPOSED SCOPE OF WORK:

- 1. MOUNT ANALYSIS REPORT, DATED 12/08/2021.
- 2. TOWER ANALYSIS REPORT, DATED 12/13/2021

	ANTENNA	TECHNOLOGY	ANTENNA	MODEL	ANTENNA RAD	AZIMI ITU	HDIPLEXER	DDII TYDE	CABLE TYPE / SIZE	HYBRID CAB	LE LENGTHS
	NUMBER	TECHNOLOGY	VENDOR	NUMBER	CENTER	AZIMUTH	DIPLEXER	KKU IIPE	CABLE TIPE / SIZE	CABLE	JUMPER
4 ×	A-1	U19/L19	ANDREW	TMBXX-6517-A2M	55'	0,	N/A	(2) FXFC	(4)	120'	N/A
ALPHA SECTOR	A-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	(1) LOW CAP HYBRID CABLE	N/A	N/A
N S	A-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TITBRID CABLE	N/A	N/A
~	B-1	U19/L19	ANDREW	TMBXX-6517-A2M	55'	120°	N/A	N/A		N/A	N/A
BETA SECTOR	B-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
l _a ss	B-3	N/A	N/A	- N/A	N/A	N/A	N/A	N/A		N/A	N/A
Α×	G-1	U19/L19	ANDREW	TMBXX-6517-A2M	55'	240°	N/A	N/A		N/A	N/A
GAMMA SECTOR	G-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S	G-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A

EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE

	ANTENNA	TECHNOLOGY	ANTENNA	MODEL	ANTENNA RAD	Δ7IMI ITH	DIPLEXER	RRU TYPE	CABLE TYPE / SIZE	HYBRID CAB	LE LENGTHS
	NUMBER	TECHNOLOGI	VENDOR	NUMBER	CENTER	AZIWIOTTI	DIFLEXEN	IKKO TITE	CABLE THE / SIZE	CABLE	JUMPER
4 ≃	A-1	L6/N6/L7/L19/G19/L21	COMMSCOPE	FFW-65C-R3-V1	55'	0.	N/A	AHLOA/AHFIG	(4)	120'	N/A
ALPHA SECTOR	A-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	(1) HCS 2.0 HYBRID CABLE	N/A	N/A
N S	A-3	L25/N25	NOKIA	AEHC	55'	0.	N/A	N/A	THORID GADLE	N/A	N/A
~	B-1	L6/N6/L7/L19/G19/L21	COMMSCOPE	FFW-65C-R3-V1	55'	120°	N/A	AHLOA/AHFIG		N/A	N/A
BETA SECTOR	B-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
la 88	B-3	L25/N25	NOKIA	AEHC	55'	120°	N/A	N/A		N/A	N/A
∀ ≅	G-1	L6/N6/L7/L19/G19/L21	COMMSCOPE	FFW-65C-R3-V1	55'	240°	N/A	AHLOA/AHFIG	(.)	120'	N/A
GAMMA	G-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	(1) HCS 2.0 HYBRID CABLE	N/A	N/A
SS	G-3	L25/N25	NOKIA	AEHC	55'	240°	N/A	N/A	THORID CADLE	N/A	N/A



NOTE: AZIMUTHS AS REPORTED BY T-MOBILE RFDS SEE RFDS FOR CABLING REQUIREMENTS

SCONSINI. **ANTHONY** ТОМВО

COA #:

REV DATE

TOMBO
F 48532-6
PORT ST LUCIE
FLORIDA
SONAL

T-Mobile

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400

EDINA, MN 55439

OFFICE: 612.701.2069

REVISIONS

0 12/29/21 100% CONSTRUCTION

B 12/08/21 ISSUED FOR REVIEW 90% A 12/02/21 ISSUED FOR REVIEW 90%

3588-11

SITE INFORMATION: T-MOBILE SITE #: A1N0961A

T-MOBILE SITE NAME: **CABLE WI-TELEMARK**

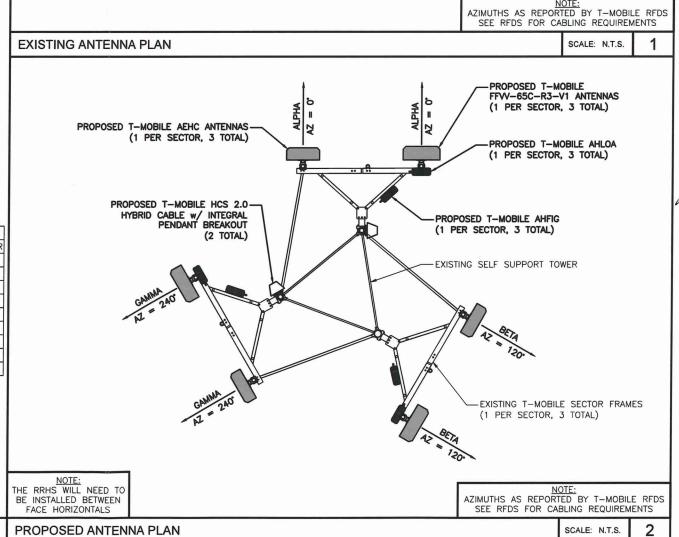
15143 NORDMORE ROAD **CABLE, WI 54821 BAYFIELD**

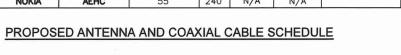
SHEET TITLE:

ANTENNA PLANS

SHEET NUMBER:

A-2





Town, City, Village, State or Federal Permits May Also Be Required

completed or if any prohibitory conditions are violated.

LAND USE - X SANITARY -SIGN -SPECIAL -CONDITIONAL -BOA -

BAYFIELD COUNTY PERMIT

WEATHERIZE AND POST THIS PERMIT ON THE PREMISES DURING CONSTUCTION

No.	22-	0039)	!:	ssue	d To: T -	-Mobil	e / Norvado	o Inc.	(Am	erican B	irke	beine	er Ski Fou	ındation Inc)
Locatio	n: SE	1/4	of	NW	1/4	Section	28	Township	43	N.	Range	7	W.	Town of	Cable
Gov't Lo	t		L	_ot		ВІ	ock	Su	ubdivisio	on				CSM#	
For: Rei Hyl 770 ext x 72	orid cabl 5 SAR A ra AMP, 2") Heigh	ante e w/ ; Rel (1) C: nt of :	nnas integ ocate SR IX 36".	, (2) F) ral per e (1) F: (RE V2 No inc Disclair	ndan SMF; (GEI reasoner):	t breakou Install (2 N2), (1) LI e in the to Any futur	it. Equ 2) ASIB, B3 Batt ower he	ipment: Rei , (2) ASIK, (3	move () ABIA (1) HPI expans	1) FSI , (6) A L3 Ca sion o	MF,1.0 C(ABIL, (2) A binet, & () f equipm	OVP, ABIC 2) HO ent a	(1) SS , (2) A CS 2.0 rea.	SC, (1) Flex MIA, (1) Vo Tower Jun	LOA, & (2) HCS 2.0 ii Table, & (1) CSR Itage Booster w/ 1 ction Boxes. (30"
You are respons	ion(s):	ng with sta	ate and fe	deral laws c	oncerning	construction near	r or on wetlan	ds, lakes, and streams.	Wetlands that	t are not as	ssociated with ope	n water (can be diffic	ult to identify. Failure	to comply may result in removal or
 MOTE: This permit expires one year from date of issuance if the authorized construction work or land use has not begun. 						nuncation web pag	ge or com		acy Poole						
Changes in plans or specifications shall no This permit may be void or revoked if any					d if any of th	ne applica	ation information				Authorized Issuing Offici				
						neous, or in		e. conditions are	not				M	arch 3, 20 Date	22

SUBMIT: COMPLETED APPLICATION, TAX STATEMENT AND FEE TO: Bayfield County Planning and Zoning Depart. PO Box 58 Washburn, WI 54891 (715) 373-6138

APPLICATION FOR PERMIT BAYFIELD COUNTY, WISCONSIN JAN 1-12022

Permit #:	22-0040
Date:	3-3-2000
Amount Paid:	16125 1-11-22 FTG
Other:	
Refund:	

INSTRUCTIONS: No permits will be issued until all fees are paid. Checks are made payable to: Bayfield County Zoning Department.

wner's Name:	EQUESTE	D +>	X) LAND	OSE [SANIT	ARY PRIVY	U C	ONDITIO		ity/Stat	SPECIAL I	USE 🗆	B.O.A.	□ OTHE		FIRE
/lobile / Norv		:			4370	4 US Hwy. 63					VI 54821	Ü		(208	229	: -8710
dress of Property 955 Cable Su		ad			A STATE OF THE STA	ity/State/Zip:								Cell	Phone	·:
nail: (print clearl	y)			la uri		able, WI 54821			-			erap.				-1502
ntractor:	mary.	marsh	all@powd	lerrivero		nactor Phone:		Plumber								
BD				1.9				riambe						Plur	mber P	hone:
thorized Agent: ('ner(s) Mary Mar	(Person Sign	ing Applic wder Ri	ation on behalf	f of		t Phone:					nclude City			Wr	itten Au	thorization
PROJECT	Silaii I O	waei iii	ver bevelo	pinent		229-8710 ax ID#	-	408 S. I	tagle R	d. Sui	e 200, E		83616 ed Docume			(for Agent)
OCATION	egal Descr	iption:	(Use Tax Sta	tement)		9408						36	3	ent: (Snowi	ng Owr	ership)
NE _1/4,SE	1/4	Gov	't Lot	Lot(s)	CSM	Vol & Page CS	M Do	c#	Lot(s)	#	Block #	Subdivi	sion:		-	
ection13	_ , Townsh	1ip43	N, Ran	ge8	_ w	Town of: Cable						Lot Size		A	creage	2
MR DEFE	☐ Is Pro	perty/La	and within 3	00 feet of	River, S	tream (incl. Intermitten	+1	Dista	nce Stru	cture i	from Sho	ralina .	le voi	ar Property		
Shoreland	Creek o	r Landw	ard side of I	Floodplain	?	f yes-continue -			nce stru	cture is	110111 3110	feet	in F	loodplain	1	re Wetland Present?
Silorcianu =	ls Pro	perty/La	and within 1	.000 feet o	f Lake, F	ond or Flowage		Dista	nce Stru	cture i	from Sho	reline :		Zone? Yes	1	☐ Yes
						f yescontinue -	>					feet		(No		X No
Non- oreland																
/alue at Time	N. Carrie				7 17 1				- 1	à.						
of Completion						1462.48			al # of				Type of	-	, V	Туре о
* include		Projec	t .		ject	Project Foundation			rooms		Sewi	er/Sanit	ary Syste	m(s)		Water
donated time & material					COLIES	Podildation			on				roperty he prope			on
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	□ Conv	ersion		☐ 2-Si	ory	□ Slab			3	D S	anitary (Exists) S	pecify Typ	e:		0
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esult of Bayfield Cour roperty at any reason Dwner(s):	nty relying on nable time for	this inform the purpo	nation I (we) an se of inspection	n (are) provid	ng in or wi	and that it will be relied up the this application. I (we) compared to the same of the sam	onsent	to county c	officials cha	rged with	administering	s county ord	t. I (we) furth inances to ha Date	er accept liab ve access to t	oility whi the abov	chmay be a e described



APPLICANT - PLEASE COMPLETE PLOT PLAN

In the box below: Draw or Sketch your Property (regardless of what you are applying for)

(1) Show Location of:

Show / Indicate: (2)Show Location of (*): (3)

Show:

Show:

(4)

(5)

Proposed Construction North (N) on Plot Plan

(*) Driveway and (*) Frontage Road (Name Frontage Road) All Existing Structures on your Property

(*) Well (W); (*) Septic Tank (ST); (*) Drain Field (DF); (*) Holding Tank (HT) and/or (*) Privy (P) (*) Lake; (*) River; (*) Stream/Creek; or (*) Pond

(6) Show any (*): Show any (*): (*) Wetlands; or (*) Slopes over 20%



Please complete (1) - (7) above (prior to continuing)

(8) Setbacks: (measured to the closest point)

Changes in plans must be approved by the Planning & Zoning Dept.

Fill Out in Ink - NO PENCIL

Description	Setb Measure		Description	Setback Measurements		
Setback from the Centerline of Platted Road	6/3	Feet	Setback from the Lake (ordinary high-water mark)	N/H	Feet	
Setback from the Established Right-of-Way	585	Feet	Setback from the River, Stream, Creek		Feet	
			Setback from the Bank or Bluff		Feet	
Setback from the North Lot Line	585	Feet				
Setback from the South Lot Line	708	Feet	Setback from Wetland		Feet	
Setback from the West Lot Line	593	Feet	20% Slope Area on the property	☐ Yes	₩ No	
Setback from the East Lot Line	308	Feet	Elevation of Floodplain		Feet	
Setback to Septic Tank or Holding Tank	XIA	Feet	Setback to Well		Feet	
Setback to Drain Field	10/1	Feet				
Setback to Privy (Portable, Composting)		Feet				

ent or construction of a structure within ten (10) feet of the m other previously surveyed corner or marked by a licensed surveyor at the owner's expense

Prior to the placement or construction of a structure more than ten (10) feet but less than thirty (30) feet from the minimum required setback, the boundary line from which the setback must be measured must be visible from one previously surveyed corner to the other previously surveyed corner to the other previously surveyed corner, or verifiable by the Department by use of a corrected compass from a known corner within 500 feet of the proposed site of the structure, or must be

(9) Stake or Mark Proposed Location(s) of New Construction, Septic Tank (ST), Drain field (DF), Holding Tank (HT), Privy (P), and Well (W).

NOTICE(s):

All Land Use Permits Expire One (1) Year from the Date of Issuance if Construction or Use has not begun. For the Construction of New One & Two Family Dwelling: ALL Municipalities Are Required To Enforce The Uniform Dwelling Code.
The local Town, Village, City, State or Federal agencies may also require permits.

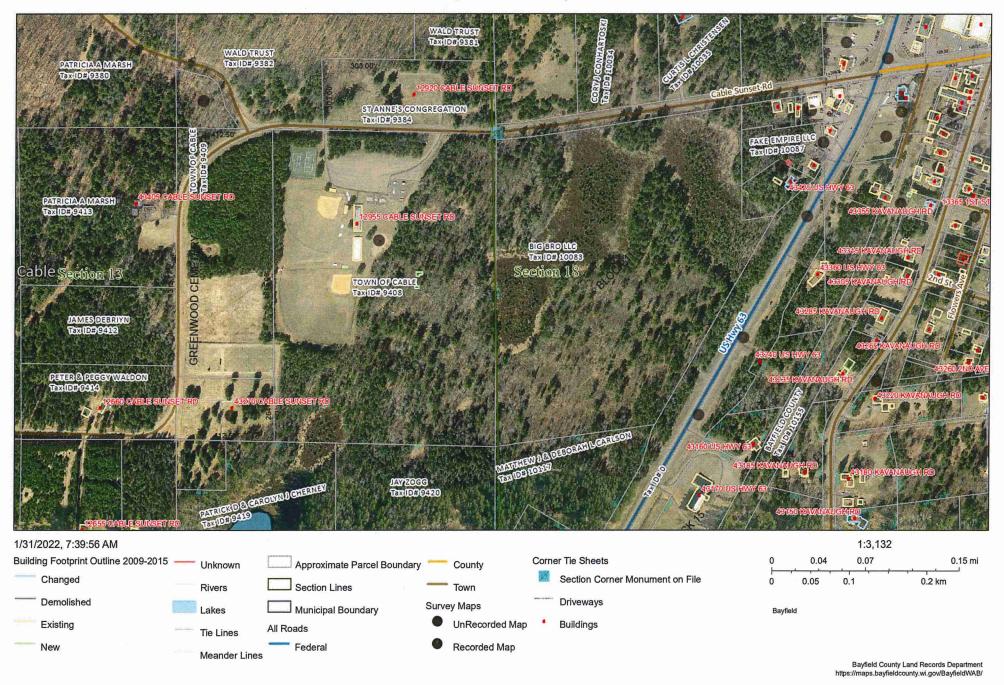
If subject property is part of a Condominium Plat, applicant hereby certifies and represents that applicant has all necessary approvals and recorded documents required to complete the project for which this permit is sought including requirements set forth in Wisconsin statutes pertaining to condominium associations, the Declaration of the Condominium Association in which the property is located, and all other rules, regulations and requirements pertaining to that Condominium Association.

You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the department of natural resources wetlands identification web page or contact a department of natural resources service center (715) 685-2900.

Issuance Information (County Use Only)	Sanitary Number:	-	# of bedrooms:	Sanitary Date:				
Permit Denied (Date):	Reason for Denial:	and the fact of						
Permit #: 22-0040	Permit Date: 3-3-9	022	- Action					
Is Parcel a Sub-Standard Lot Is Parcel in Common Ownership Is Structure Non-Conforming Yes (Deed of Record Guerry Yes (Fused/Contigue Yes (Fused/Contigue Yes (Deed of Record	aus Lot(s))	Mitigation Required Mitigation Attached	A PRODUCE AND A PROPERTY OF THE PROPERTY OF TH	Affidavit Required Affidavit Attached Yes No				
Granted by Variance (B.O.A.) ☐ Yes ☐ No Case #:		Previously Granted by Yes No	/ Variance (B.O.A.) Case	#:				
Was Parcel Legally Created Was Proposed Building Site Delineated ☐ Yes ☐ No		Were Property Line	es Represented by Owner Was Property Surveyed	☑ Yes □ No ☑ Yes □ No				
Inspection Record:		1		Zoning District (M) Lakes Classification (/ V / p)				
Date of Inspection: 12/20/21	Inspected by:			Date of Re-Inspection:				
Condition(s): Town, Committee or Board Conditions Attac	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	they need to be atta	ched.)					
- Modity as	Propose d							
as A				4 4 4 4				
Signature of Inspector:	-	100000		Date of Approval:				
Hold For Sanitary: Hold For TBA:	Hold For Affida	vit: 🗆	Hold For Fees:	D 2/2/22				

@@January 2000 (@August 2021)

Bayfield County, WI



'oday's Date: 1/31/2022

Created On: 3/15/2006 1:15:06 PM

Description Updated: 3/5/2019 Tax ID: 9408 PIN: 04-012-2-43-08-13-4 01-000-10000 Legacy PIN: 012110607000 Map ID: 1unicipality: (012) TOWN OF CABLE STR: S13 T43N R08W Description: NE SE IN V.363 P.164 752 Recorded Acres: 26.000 Calculated Acres: 28.290 .ottery Claims: 0 irst Dollar: No 'oning: (F-1) Forestry-1 ESN: 108

Tax Districts	Updated: 3/15/2006		
	STATE		
)4	COUNTY		
)12	TOWN OF CABLE		
)41491	SCHL-DRUMMOND		
001700	TECHNICAL COLLEGE		

Recorded Documents	Updated: 3/15/2006
I CONVERGION	

F	CONVERSION	
-	COMATKRIOM	

Date Recorded:

363-164

Ownership

TOWN OF CABLE

Updated: 5/10/2011

CABLE WI

Billing Address: TOWN OF CABLE PO BOX 476 **CABLE WI 54821**

Mailing Address: TOWN OF CABLE

PO BOX 476 **CABLE WI 54821**

Fite Address * indicates Private Road

12955 CABLE SUNSET RD

CABLE 54821

Property Assessment		Updated: 3/15/2006	
2021 Assessment Detail			
Code	Acres	Land	Imp.
X4-EXEMPT OTHER	26.000	0	0
2-Year Comparison	2020	2021	Change
Land:	0	0	0.0%
Improved:	0	0	0.0%
Total:	0	0	0.0%



Property History

N/A



Powder River Development Services, LLC

408 S. Eagle Rd., Suite 200 Eagle, ID 83616 (208) 938-8844 office (208) 938-8855

www.powderriverdev.com

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JAN 1 1 2022

Bayfield Co. Planning and Zoning Agency

January 4, 2022

Bayfield County Planning and Zoning P.O. Box 58 Washburn, WI 54891

RE: Application for Permit Submittal

T-Mobile Site ID: A1N0943A Cable Park

Site Location: 12955 Cable Sunset Road, Cable, WI 54821 Property ID Number: 04-012-2-43-08-13-4 01-000-10000

Powder River Development Services represents T-Mobile regarding their proposed upgrades and modifications to the existing unmanned wireless telecommunications facility referenced above.

The Scope of Work Includes:

At antenna level:

Remove (3) Antennas and (2) FXFC; install (6) Antennas, (3) AHFIG, (3) AHLOA and (1) HCS 2.0 Hybrid Cable w/ Integral Pendant Breakout.

At equipment level:

Remove (1) FSMF, (1) Flexi Table, (1) SSC and (1) CSR 7705 SAR A; relocate (1) FSMF; install (1) HPL3 Cabinet, (1) LB# Cabinet, (2) ASIB, (1) ASIL, (3) ABIA, (2) ABIO, (2) AMIA, (1) CSR IXRE V2 (GEN2), (1) Voltage Booster w/ (1) Extra AMP, (1) HCS 2.0 Tower Junction Box, (1) Floodlight w/ Timer Switch and (1) Timer Switch w/ GFCI Plug on Platform.

There will be no increase in the tower height and no expansion of the equipment area.

Enclosed Submittal Documents:

- Completed Application for Permit
- Letter of Authorization from Property Owner
- Property Ownership Listing
- Eligible Facilities Request Letter
- Construction Drawings
- \$125.00 Check for Application Fee

Project Valuation: \$25,000.00

If you have any questions or need more information, I can be reached by phone at (208) 229-8710 or by email at mary.marshall@powderriverdev.com.

Mary Marshall

Site Acquisition Manager



Bayfield Co.
Planning and Zoning Agency

LETTER OF AUTHORIZATION

To: Bayfield County Planning and Zoning Department

RE: Land Use Permit Application

T-Mobile Site ID: A1N0943A Cable Park

Property Address: 12955 Cable Sunset Road, Cable, WI 54821

Parcel ID Number: 04-012-2-43-08-13-4 01-000-10000

As owner(s) or authorized representative of the above-described property, I/we hereby appoint Powder River Development Services, including their authorized representatives, as agent for the purpose of completing and submitting any Land Use Applications necessary to ensure T-Mobile USA's ability to use and/or construct improvements to the property leased, or licensed to it for the purpose of modifying an existing Wireless Telecommunications Facility. Powder River Development Services agrees to acquire written approval from T-Mobile USA on all plans and drawings prior to submitting to the governmental jurisdiction for Land Use approval. I/We understand that the application may be denied, modified or approved with conditions and that such conditions or modifications must be complied with prior to issuance of Building Permits.

I/We hereby authorize the employees of the Bayfield County Planning and Zoning Department to enter upon the subject property during normal business hours as necessary to inspect the property for the purpose of processing this application.

Property Owner or Authorized Representative Signature

Lob Lombard

Name

C.G.O.

Title

Real Estate Bayfield County Property Listing

Today's Date: 1/4/2022

Property Status: Current

Created On: 3/15/2006 1:15:06 PM

Description

9408

Tax ID: PIN:

04-012-2-43-08-13-4 01-000-10000

Legacy PIN:

012110607000

Map ID:

Municipality: (012) TOWN OF CABLE STR: S13 T43N R08W

Description:

NE SE IN V.363 P.164 752

Recorded Acres: Calculated Acres: Lottery Claims:

26.000 28.290 0 No

First Dollar: Zoning:

(F-1) Forestry-1

ESN:

108

3	Tax	Districts
-		

Updated: 3/15/2006 1 STATE 04 COUNTY 012 TOWN OF CABLE 041491 SCHL-DRUMMOND 001700 TECHNICAL COLLEGE



Recorded Documents

Updated: 3/15/2006

Updated: 3/5/2019

CONVERSION

Date Recorded:

363-164



🎎 Ownership

TOWN OF CABLE

Updated: 5/10/2011

CABLE WI

Billing Address: TOWN OF CABLE PO BOX 476

CABLE WI 54821

Mailing Address: TOWN OF CABLE PO BOX 476 **CABLE WI 54821**



Site Address * indicates Private Road

12955 CABLE SUNSET RD

CABLE 54821

Property Assessment	Updated: 3/15/2006		
2021 Assessment Detail			
Code	Acres	Land	Imp.
X4-EXEMPT OTHER	26.000	0	0
2-Year Comparison	2020	2021	Change
Land:	0	0	0.0%
Improved:	0	0	0.0%
Total:	0	0	0.0%



Property History

N/A

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Bayfield Co. Planning and Zoning Agency

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Bayfield Co.
Planning and Zoning Agency



Eligible Facilities Request

Date: January 4, 2022

To: Bayfield County Planning and Zoning

From: Powder River Development Services, LLC o/b/o T-Mobile Central LLC

Re: Eligible Facilities Request to modify Transmission Equipment on an Existing Wireless

Tower located at 12955 Cable Sunset Road, Cable, WI 54821; T-Mobile Site: A1N0943A

A. T-Mobile's Proposed Project is an Eligible Facilities Request that Must Be Granted

Powder River Development Services, LLC on behalf of T-Mobile Central LLC ("Applicant") is submitting the attached application to add, remove, modify, or replace Transmission Equipment (the "Request") at the existing Tower located at 12955 Cable Sunset Road, Cable, WI 54821 in Bayfield County ("County").

This Request is covered by Section 6409 of the Spectrum Act (47 U.S.C. Sect. 1455(a)),¹ which provides that state and local governments "may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." In this case, the enclosed Request involves a proposal to remove and replace antennas, coax cables and misc. ancillary equipment. The existing Tower is a structure that is 195 feet high and presently contains wireless facilities.

In its implementing regulations, the Federal Communications Commissions ("FCC") determined that any modification to an existing telecommunications Tower that meets the following criteria does not substantially change the physical dimensions of the existing Tower (47 C.F.R. § 1.6100(b)(7)), and therefore is an Eligible Facilities Request that must be granted under Section 6409. The proposed project satisfies those criteria as outlined below because it:

1) Will not increase the height of the Tower by more than ten percent (10%) or twenty (20) feet, whichever is greater;

¹ See also 47 C.F.R. § 1.6100 (the FCC's 6409 implementing regulations).

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There will be no increase in Tower height.

Bayfield Co.
Planning and Zoning Agency

2) Does not protrude from the edge of the Tower by more than twenty (20) feet;

The antennas will not protrude from the edge of the Tower by more than twenty (20) feet.

- 3) The proposed project does not defeat any existing concealment elements. To be considered a "concealment element," the element must have been a part of the facility at either:
 - (1) the time of original approval; or
 - (2) at the last modification of the tower if such modification occurred prior to the February 22, 2012 or outside the 6409(a) process (whichever is later).

The definition of "concealment elements" does not extend to "any attribute that minimizes the visual impact of a facility, such as a specific location on a rooftop site or placement behind a tree line or fence." Moreover, a proposed modification can increase the size of the concealment features, so long as they: (i) do not increase by more than the criteria in (1) and (2) above, and (ii) would continue to effectively make "the structure appear not to be a wireless Facility." If the concealment elements would continue to effectively make the structure appear not to be a wireless facility after the proposed modification, then the modification would not defeat concealment

The existing site does not have any existing concealment elements, so this criterion is satisfied.

4) Does not entail any excavation outside the current Tower site;

The proposed project will not involve excavations outside the current Tower site.

5) Does not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.

The proposed project will involve the removal of two (2) existing cabinets and the installation of two (2) new cabinets for a total of two (2) cabinets.

6) The proposed project complies with all prior conditions of approval for the existing site, except for any non-compliance that is due to an increase in height, increase in width,

² Implementation of State and Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012, FCC 20-75, Declaratory Ruling and Notice of Proposed Rulemaking, ¶ 35 (June 10, 2020). ("5G Upgrade Order").

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Bayfield Co.

addition of equipment cabinets, or new excavation that does not exceed the thresholds above. These conditions may relate to aesthetics or minimizing the visual impact of the wireless facility. To be enforced, there must be express evidence of specific conditions of approval and continued compliance with such conditions.

This project includes the removal of three (3) existing antennas, replacing them with three (6) new antennas.

Finally, all of the equipment being installed as part of this Request qualifies as Transmission Equipment under the FCC's rules at 47 C.F.R. § 1.6100(b)(8).

Based on the foregoing, the Request qualifies for expedited processing under the Spectrum Act.

B. <u>The 60 day Shot Clock Applies to All Necessary Permits or Authorizations to Necessary</u> <u>for T-Mobile to Proceed with the Request</u>

Under Section 6409 "a State or local government may not deny, and shall approve, any eligible facilities request . . . " within 60 days of the filing of a complete application.3 As the FCC's explained in its recent declaratory rule, that time period covers "all qualifying applications" and all necessary permits and authorizations.4 Where a jurisdiction requires an applicant too obtain clearance from numerous separate departments or obtained numerous permits, the FCC explained that the applicant starts the 60 day shot clock when: 1) it takes the "first procedural step" that the jurisdiction requires, even if there are multiple potential "first steps" with various municipal committees or departments, and 2) the applicant provides written documentation demonstrating that the applicable eligible facilities request criteria are satisfied.5

Thus, it is clear that the shot clock and deemed granted remedy of the FCC's rules apply to all of Barron County's requirements, and the 60 day period starts with the filing of the enclosed application.

C. Notice of Expedited Permit Processing and Deemed Granted Remedy

Under federal law, any Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed. Thus, if sixty days pass after the submission of this Request and the County has not acted to grant or deny the Request, it will be deemed granted.⁶ At that time, the

³ Id. ¶ 39 (June 10, 2020). 47 U.S.C. § 1455(a)(1).

⁴ County of Portland v. U.S., 2020 U.S. App. Lexis 25553 **48-49 (9th Cir. Aug. 12, 2020).

⁵ 5G Upgrade Order, ¶¶ 15-16 (June 10, 2020). The FCC also explained that its ruling provided "considerable flexibility" to structure their procedures for review of Eligible Facilities Requests, "but prevent localities from 'impos[ing] lengthy and onerous processes not justified by the limited scope of review contemplated' by Section 6409(a)." *Id.* ¶ 17.

⁶ Under the FCC's rules, the jurisdiction has 30 days to advise the applicant of the completeness of its application. The rules also provide for the tolling of the shot clock under certain situations.

applicant may advise the County that the application has been deemed granted. If the County wishes to contest whether Request has been deemed granted, the burden is on the County to file a lawsuit in a court of competent jurisdiction within 30 days after receipt of a written communication notifying it that the Request has been deemed granted.

T-Mobile is committed to working cooperatively with you to process this request in a timely and efficient manner. Please do not hesitate to contact me if you have questions at the phone number or email below.

Sincerely,
Mary Marshall

Mary Marshall
Site Acquisition Manager

Powder River Development Services, LLC

408 S. Eagle Drive, Suite 200

Eagle, ID 83616 (208) 229-8710

mary.marshall@powderriverdev.com

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JAN 112022

Bayfield Co.
Planning and Zoning Agency

T Mobile ®

SITE PHOTO



VICINITY MAP History Museum M United States Postal 46.20530000,-91.30290000

T-MOBILE PROJECT

ANCHOR

SITE INFORMATION

T-MOBILE SITE NUMBER: T-MOBILE SITE NAME: SITE TYPE: SITE ADDRESS:

COUNTY: JURISDICTION:

A1N0943A A1N0943A (CABLE TOWER) 195' SELF-SUPPORT TOWER 12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD** CITY OF CABLE, WI

PROJECT DESCRIPTION

ANTENNA (CL): 178'

AT ANTENNA LEVEL REMOVE (3) ANTENNAS, (2) FXFC

INSTALL (6) ANTENNAS, (3) AHFIG, (3) AHLOA, & (1) HCS 2.0 HYBRID CABLE W/ INTEGRAL PENDANT BREAKOUT

REMOVE (1) FSMF, (1) FLEXI TABLE, (1) SSC, & (1) CSR 7705 SAR A

RELOCATE (1) FSMF

INSTALL

(1) HPL3 CABINET, (1) LB3 BATTERY CABINET, (2) ASIB. (1) ASIL, (3) ABIA, (2) ABIO, (3) ABIC, (2) AMIA, (1) CSR IXRE V2 (GEN2), (1) VOLTAGE BOOSTER W/ (1) EXTRA AMP, (1) HCS 2.0 TOWER JUNCTION BOX, (1) FLOODLIGHT W/TIMER SWITCH, AND (1) TIMER SWITCH w/ GFCI PLUG ON PLATFORM.

THESE DRAWINGS ARE BASED ON RFDS VERSION 3 DATED 12/17/2021 GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF THE RFDS WITH T-MOBILE NETWORKS PRIOR

PROPERTY LOCATION

12955 CABLE SUNSET RD, CABLE, WI 54821

APPLICABLE CODES

TOWER OWNER: NORVADO INC.

2015 INTERNATIONAL BUILDING CODE 2017 NATIONAL ELECTRICAL CODE

CONTACT INFORMATION

T-MOBILE USA, INC. 8000 WEST 78TH STREET, SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

POWDER RIVER DEVELOPMENT SERVICES, LLC. 408 S. EAGLE ROAD, SUITE 200 FAGLE, ID 83616 CONTACT: CHRIS CROSBY PHONE: 763.360.1451 EMAIL: chris.crosby@powderriverdev.com

POWDER RIVER DEVELOPMENT SERVICES, LLC. 408 S. EAGLE ROAD, SUITE 200 EAGLE, ID 83616 CONTACT: MARY MARSHALL PHONE: 208.229.8710 EMAIL: mary.marshall@powderriverdev.com

TOWER OWNER INFO

LL SITE ID: N/A LL SITE NAME: CABLE PARK B19

COORDINATES

46.20530000° ONGITUDE: -91.30290000*
(PER MOST RECENT RFDS) LONGITUDE:

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN MINNESOTA CALL GOPHER STATE ONE CALL

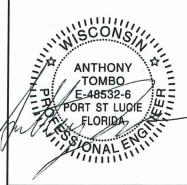
> TOLL FREE 1.800.252.1166 FAX A LOCATE 1.800.236.4967

T • • Mobile • *

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



BU	BUSINESS LICENSE #:		
		REVISIONS	
REV	DATE	DESCRIPTION	INT
1	12/20/21	REVISIONS	LNM
0	12/15/21	100% CONSTRUCTION	BMW
В	12/09/21	ISSUED FOR REVIEW 90%	BWS
Α	11/29/21	ISSUED FOR REVIEW 90%	LNM



SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE. WI 54821 BAYFIELD COUNTY**

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

CALL BEFORE YOU DIG

DRAWING INDEX

TITLE SHEET

GENERAL NOTES

GENERAL NOTES

OVERALL SITE PLAN

EXISTING SITE PLAN

EQUIPMENT PLANS

EQUIPMENT DETAILS

EQUIPMENT DETAILS EQUIPMENT DETAILS

EQUIPMENT DETAILS

EQUIPMENT DETAILS

EQUIPMENT DETAILS

EQUIPMENT DETAILS

TOWER ELEVATIONS

ANTENNA PLANS

SITE PHOTOS

SITE PHOTOS

PROPOSED SITE PLAN

DESCRIPTION

REV

1

1

1

1

1

1

1

1



SHEET NO.

T-1

GN-1

GN-2

C-1

C - 1.1

C - 1.2

C-2

C-3

C-4

C-5C-6

C-7

C-8

C-9

C - 10

A-2

Call before you dig. www.call811.com

MN STATUTE REQUIRES MIN OF 48 HOURS NOTICE REFORE YOU EXCAVATE.

2.WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST EDITION OF THE BUILDING CODE AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.

3.0MISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE

ENGINEER PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.

4.ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ENGINEER SO THAT THE PROPER REVISION MAY BE MADE. MODIFICATIONS OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

5.THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BUT NOT LIMITED TO BRACING, TEMPORARY SUPPORTS AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. NEITHER THE OWNER NOR ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

6.SAFETY: CONFORM TO ALL APPLICABLE OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER OR OWNER.

THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER OR OWNER.

7. ANY PROPRIETARY COMPONENTS, MOUNTS, MATERIALS, CHEMICAL, EPOXY AND WEDGE ANCHORS, AND SHOT PINS SHALL BE EXACTLY AS CALLED FOR IN THESE DRAWINGS. ANY DEVIATIONS SHALL BE APPROVED OR DISAPPROVED BY THE ENGINEER AT THE EXPENSE OF THE ENTITY REQUESTING THE SUBSTITUTION PRIOR TO THE INSTALLATION.

8.THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: THE CONTRACT, SPECIFICATIONS AND CONSTRUCTION DRAWINGS.

9.THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COORDINATION AND ASSEMBLY OF ALL PARTS OF THE CONSTRUCTION DEPICTED HEREIN. THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTABILITY REVIEW OR COORDINATION DRAWINGS NECESSARY TO IDENTIFY CONSTRUCTABILITY PROBLEMS PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING JOB SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL SERVICE AND OVERALL COORDINATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC., SHALL BE REPORTED TO THE CARRIER CONSTRUCTION SUPERVISOR BEFORE PROCEEDING WITH THE WORK.

11. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING STRUCTURES, LANDSCAPING OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT, BUILDING OWNER OR OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.

12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.

14. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE GOVERNING AGENCY.

15. THE CONTRACTOR AND ALL SUBORDINATE CONTRACTORS SHALL COMPLY WITH

6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO CARRIER.

17. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR PERFORM ANY CONSTRUCTION ACTIVITIES UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN ITEMS COVERED IN SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC PLANS OR DETAILS, THE ENGINEER SHALL BE NOTIFIED, AND HE/SHE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS PRIOR TO THE INSTALLATION OF THAT PORTION OF WORK.

18. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION.

19. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB

CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

20. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

21. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE CONTACTED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

22. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT NOT OTHERWISE SHOWN HEREIN. ALL SUSPENDED MECHANICAL EQUIPMENT TO BE SWAY OR LATERALLY BRACED.

23. GOVERNING AGENCY-APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. AT ALL TIMES THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

24. DESIGN DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS WILL PERMIT. ANY ERROR, OMISSION, OR DESIGN DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE CARRIER CONSTRUCTION SUPERVISOR FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION

25. AS-BUILT REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE CARRIER CONSTRUCTION SUPERVISOR'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CARRIER CONSTRUCTION SUPERVISOR FOR THE OWNER'S RECORDS.

26. A CLOSEOUT BOOK CONTAINING THE FOLLOWING, SHALL BE PROVIDED BY THE CONTRACTOR. AS APPLICABLE:

A.AS BUILT DESIGN DRAWINGS

B.SWEEP TEST RESULTS

D.PHOTO DOCUMENTATION OF:

I. UNDERGROUND CONDUITS AND GROUND RING

II. ANTENNA, COAX, JUMPER ATTACHMENTS AND GROUND KIT ATTACHMENTS

II. ANTENNA, COAX, JUMPER ATTACHMENTS AND GROUND KIT ATTACHMENTS

III. ANTENNA DOWN TILT MEASUREMENT USING AN INCLINOMETER ON THE BACK

PLANE OF THE ANTENNA

IV. GROUND BAR ATTACHMENTS

E.SIGNED OFF PERMIT CARDS

F. CERTIFICATE OF OCCUPANCY

G.RETURN OF KEYS AND/OR ACCESS AUTHORIZATION

H.ORIGINAL BUILDING PERMIT

SITE WORK NOTES

1.SCOPE: CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUB GRADE PREPARATION, FINISH GRADING AND SECURITY FENCE, AS REQUIRED BY CONSTRUCTION DRAWINGS AND DETAIL DRAWINGS.

2.REFERENCES:

A.DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR THE STATE IN WHICH THE PROJECT IS LOCATED.

B.ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)

C.OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)

D.AASHTO (AMERICAN ASSOCIATION OF STATE TRANSPORTATION OFFICIALS)

3.INSPECTION AND TESTING:

A.FIELD TESTING OF EARTHWORK, AGGREGATE BASE COURSE, COMPATION AND CONCRETE TESTING SHALL BE PERFORMED BY THE CONTRACTOR'S INDEPENDENT TESTING LAB

B.ALL WORK SHALL BE INSPECTED AND RELEASED BY THE CARRIER CONSTRUCTION SUPERVISOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

4.SITE MAINTENANCE AND PROTECTION:

A.PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF THE WORK UNTIL COMPLETION OF THE CONTRACT.

B.CONTACT THE ONE—CALL UTILITY LOCATION SERVICE PRIOR TO ANY EXCAVATING ACTIVITIES TO HAVE LOCATIONS OF UNDERGROUND UTILITIES VERIFIED.

C.AVOID DAMAGE TO THE SITE INCLUDING EXISTING FACILITIES, STRUCTURES, TREES AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING ITEMS THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.

D.KEEP SITE FREE OF ALL PONDING WATER.

E. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT

ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS AND CHECK DAMS.

F.PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

5.BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE WELL DRAINED AT ALL TIMES.

6.ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.

7.PERFORM ALL SURVEY, LAYOUT, STAKING AND MARKING TO ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.

8.CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE AND ONLY THE IMMEDIATE SURROUNDINGS NECESSARY TO COMPLETE THE WORK. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED AND GRUBBED.

9.REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING IS NOT DEPARTED.

10. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS, AND ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, CULVERT, STREAM CROSSING OR OTHER ITEM NOT SHOWN THAT MIGHT AFFECT OR INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.

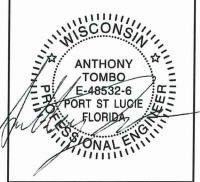
11. SEPARATE AND STOCKPILE ALL EXCAVATED MATERIALS SUITABLE FOR BACK FILL. ALL EXCESS EXCAVATED, AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF IN AN AREA DESIGNATED BY THE CARRIER CONSTRUCTION SUPERVISOR. (UNSUITABLE MATERIAL MAY BE REQUIRED TO BE REMOVED FROM THE SITE.)

T - Mobile -

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



BUSINESS LICENSE #: N/A			
		REVISIONS	
REV	DATE	DESCRIPTION	INT
			_
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1	12/20/21	REVISIONS	LNM
0	12/15/21	100% CONSTRUCTION	BMW
В	12/09/21	ISSUED FOR REVIEW 90%	BWS
Α	11/29/21	ISSUED FOR REVIEW 90%	LNM



THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE MAD SHALL REMAIN THE PROPERTY OF POWDER RIVER DEVELOPMENT SERVICES, LLC WHETHER THE PROJECTS FOR WHICH THEY ARE MADE ARE EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS AND AND AND SPECIFICATIONS WITHOUT PRIOR WHITHOUT PRIOR WHITHOUT PRIOR WHITHOUT PRIOR WHITHOUT CONSENT OF THE ENGINEERS.

SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-1

- 2.THE PUBLICATIONS LISTED BELOW FORM PART OF THESE NOTES. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS:
- A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
- B. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
- C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
- D. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
- E. NFPA 70 (NATIONAL FIRE PROTECTION ASSOCIATION)
- F. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), INCLUDING ALL APPLICABLE AMENDMENTS
- G. UL (UNDERWRITERS LABORATORIES)
- H. APPLICABLE LOCAL CODES AND ORDINANCES
- 3.THE CONTRACTOR SHALL INSTALL UNDERGROUND ELECTRICAL AND TELEPHONE CONDUITS AND CABLE AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- 4.WHEN FINISHED, WORK SHALL BE IN A COMPLETE AND UNDAMAGED STATE, AS REQUIRED IN THE CONTRACT DOCUMENTS.
- 5.ITEMS SHALL BE NEW AND SHALL BE INSTALLED ONLY IF IN FIRST-CLASS CONDITION
- 6.SUBSTITUTIONS FOR MATERIAL WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF THE CARRIER CONSTRUCTION SUPERVISOR AND BY THE ENGINEER.
- 7.THE CONTRACTOR SHALL PROVIDE ALL MATERIAL EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL MATERIAL SHALL BE APPROVED AND LISTED BY OR BEAR THE UL LABEL, AND WILL COMPLY WITH ANSI, IEEE AND NEMA STANDARDS WHERE APPLICABLE.
- 8.CONDUITS:
- A. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC , SIZED AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- B. ALL EXTERIOR ABOVEGROUND CONDUIT SHALL BE PER LOCAL CODE REQUIREMENTS.
- C. ALL INTERIOR CONDUIT SHALL BE EMT WITH COMPRESSION-TYPE FITTINGS.
- D. LIQUID—TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR OUTDOOR LOCATIONS WHERE FLEXIBLE CONNECTION IS REQUIRED.
- 9.CABLES CONDUCTORS FOR GENERAL WIRING SHALL BE NEC STANDARD ANNEALED COPPER WIRE WITH NEC 600-VOLT INSULATION.
- A. #8 AND LARGER-STRANDED TYPE, THHN OR THWN.
- B #10 AND SMALLER-SOLID TYPE THEN OR THWN
- C. CONDUCTORS IN CONDUIT IN OR ADJACENT TO HIGH HEAT SOURCE SHALL BE TYPE XHHW.
- D. CONDUCTORS IN CONDUITS ABOVE ROOF, ON TOP OF ROOF OR INSIDE BUILT-UP ROOFING MATERIAL SHALL BE TYPE XHHW
- 10. CONVENIENCE OUTLET, UNLESS NOTED OTHERWISE, SURFACE—MOUNTED OUTLETS FOR EXTERIOR LOCATIONS SHALL BE FERALOY, CAD/ZINC ELECTROPLATED WITH THREADED HUBS OR CONDUIT ENTRANCES DRILLED AND TAPPED. ALL COVERS SHALL BE SELF—CLOSING AND GASKETED. SURFACE MOUNTED OUTLETS FOR INTERIOR LOCATIONS SHALL BE GALVANIZED, PRESSED STEEL WITH COVER PLATE, SIERRA PLASTIC STYLE, IVORY COLOR.
- 11. COAXIAL CABLE SUPPORTS 1. ALL WAVE GUIDE SUPPORTS SHALL BE MANUFACTURED TO MEET ALL COAX MINIMUM BENDING REQUIREMENTS. SUPPORTS SHALL BE PROVIDED EVERY 3'-0" ON CENTER.
- 12. BEFORE LAYING OUT WORK, EXERCISE PROPER PRECAUTION TO VERIFY EACH MEASUREMENT.
- 13. USE EXTREME CAUTION BEFORE EXCAVATING IN EXISTING AREAS TO LOCATE EXISTING UNDERGROUND SERVICES.
- 14. A VISUAL CHECK OF ELECTRICAL AND TELEPHONE CABLES, CONDUITS AND OTHER ITEMS SHALL BE MADE BY A CARRIER CONSTRUCTION SUPERVISOR BEFORE THESE ITEMS ARE PERMANENTLY INSTALLED.
- 15. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR 24 HOURS PRIOR TO TRENCH BACK FILL.
- 16. TRENCHING, BACK FILLING, BEDDING AND COMPACTING SHALL COMPLY WITH SITE WORK SPECIFICATIONS.
- 17. DIG TRENCHES TO THE REQUIRED DEPTH AS SHOWN ON THE DRAWINGS WITHOUT POCKETS OR DIPS. REMOVE LARGE STONES FROM THE BOTTOM OF THE TRENCH AND FIRMLY TAMP LOOSE FILL IN THE BOTTOM BEFORE CONDUIT IS LAID.

 18. INSTALL UNDERGROUND CONDUIT WITH A MINIMUM 3-INCH TO 100-FOOT SLOPE
- OR TO A SLOPE SHOWN ON THE DRAWINGS.
- UNLESS SHOWN OTHERWISE ON THE DRAWINGS, TERMINATE AND CAP ALL STUB-UPS 12 INCHES ABOVE FINISHED GRADE ELEVATION.
- 20. WHEREVER CONDUITS CROSS UNDER ROADWAYS, USE GALVANIZED RIGID STEEL CONDUITS IN ALL CASES, EXTENDING 5 FEET BEYOND THE EDGE OF THE ROAD BED. MINIMUM DEPTH FOR CONDUIT SHALL BE 4 FEET BELOW ROADWAY GRADE.
- 21. MARK UNDERGROUND CONDUITS WITH A 6-INCH WIDE RED POLYETHYLENE TAPE BURIED 6 INCHES UNDER THE SURFACE DIRECTLY OVER THE CONDUITS. MARK THE TAPE THUS: CAUTION-BURIED ELECTRICAL CABLE.
- 22. FOR SEALING CONDUITS, USE ONLY NON-THERMOPLASTIC COMPOUNDS SUCH AS J.M. DUXSEAL, OR AN CARRIER-APPROVED SUBSTITUTE. THE COMPOUND SHALL HAVE NO EFFECT ON RUBBER OR RUBBER-LIKE INSULATIONS, LEAD, ALUMINUM OR FERROUS ALLOYS; IT SHALL BE INSOLUBLE IN WATER AND WITHSTAND MAXIMUM TEMPERATURE RANGES OF THE LOCALITY.
- 23. COAXIAL REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- 24. ANTENNA REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- 5. LNA/MHA REFER TO ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.

GROUNDING NOTES

- 1.THIS SPECIFICATION PRESCRIBES THE REQUIREMENTS FOR FURNISHING, INSTALLATION AND TESTING OF THE GROUNDING CABLE, CONNECTORS AND ASSOCIATED COMPONENTS AS INDICATED ON THE DRAWINGS.
- 2.APPLICATIONS OF ELECTRICAL GROUNDING AND BONDING WORK SPECIFIED IN THIS SPECIFICATION INCLUDE THE FOLLOWING:
- A. FENCE AND GATE POSTS
- B. ELECTRICAL POWER SYSTEMS
- C. GROUNDING ELECTRODES
- D. GROUND BUS BAR
- E. SERVICE EQUIPMENTF. ENCLOSURES
- G. MONOPOLE / LATTICE TOWER
- H ICE BRIDGE
- 3.REFERENCES: THE PUBLICATIONS LISTED BELOW FORM PART OF THESE DRAWINGS. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THESE DRAWINGS ARE ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THESE DRAWINGS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.
 - A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - B. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
 - C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
 - D. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION) E. NESC (NATIONAL ELECTRICAL SAFETY CODE), LATEST EDITION
 - F. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
 - G. UL (UNDERWRITERS' LABORATORIES)
 - H. APPLICABLE LOCAL CODES AND ORDINANCES
- 4.MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED; WITH ASSEMBLY OF MATERIAL, INCLUDING, BUT NOT LIMITED TO, GROUNDING ELECTRODES, BONDING JUMPER AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE OF COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH NEC, UL, AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED.

 A. GROUNDING:
 - I. THE EQUIPMENT SHALL BE GROUNDED AS FOLLOWS, AS SHOWN ON THE DRAWINGS AND IN COMPLIANCE WITH NEC ARTICLE 250 AND STATE AND LOCAL CODES.
 - II. GROUND RODS AND QUANTITY SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL PERFORM A GROUND—RESISTANCE—TO—EARTH TEST. SHOULD THE INSTALLATION HAVE A RESISTANCE OF 5 OHMS OR MORE, CONTRACTOR SHALL INSTALL MORE GROUND RODS AS NECESSARY SO THAT THE OVERALL GROUND—TO—EARTHRESISTANCE IS LESS THAN 5 OHMS.
 - III. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NEC'S "STANDARD OF INSTALLATION," AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.
 - IV. COORDINATE WITH OTHER ELECTRICAL WORK AS NECESSARY TO INTERFACE INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS.
 - V. INSTALL GROUND CONDUCTORS A MINIMUM OF 36 INCHES BELOW FINISHED GRADE WHICH ENCIRCLE THE TOWER AND EQUIPMENT, AND ARE CONNECTED TO EACH DRIVEN GROUND ROD. GROUND TRENCH SHALL BE AT LEAST 24 INCHES AWAY FROM FOUNDATIONS.
 - VI. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUE FOR CONNECTORS AND BOLTS, WHERE MANUFACTURER'S TORQUEING REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUE SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
 - VII. APPLY CORROSION—RESISTANT FINISH (NO—OX OR CARRIER—APPROVED EQUIVALENT) TO FIELD—CONNECTIONS, AT COPPER GROUND BARS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATING HAVE BEEN DESTROYED, OR ARE SUBJECTED TO CORROSIVE AND/OR OXIDATION PROCESS.
 - VIII. ON EXISTING LATTICE TOWERS, WATER TOWERS AND ROOF TOPS, WHEN A NEW GROUNDING SYSTEM IS INSTALLED, THE CONTRACTOR SHALL TIE THE NEW GROUND SYSTEM TO THE EXISTING WATER TOWER, LATTICE TOWER STRUCTURAL STEEL OR BUILDING STRUCTURAL STEEL AS THE CASE MAY BE AT A MINIMUM OF ONE LOCATION SO THAT THEY ARE AT THE SAME VOLTAGE POTENTIAL.
 - C. ALL TOWER AND TOP GROUND WIRES SHALL BE SUPPORTED EVERY TWO FEET MAXIMUM.
- B. GROUND RODS:
- GROUND RODS SHALL BE 5/8" DIAMETER WITH 8'-0" EMBEDMENT MIN., COPPER CLAD DRIVEN ROD(S).
- II. GROUND ROD(S) SHALL BE LOCATED AT THE PERIMETER OF EQUIPMENT AS . TO CREATE A GROUND RING AS SHOWN ON THE DRAWINGS.
- III. GROUND ROD(S) SHALL BE SPACED AT A MINIMUM OF 8'-0" AND A MAXIMUM SPACING OF 10'-0" ON CENTER.
- IV. GROUND RODS SHALL BE BURIED BELOW THE FROSTLINE. AT NO TIME SHALL THIS DEPTH BE LESS THAN 18" BELOW FINISHED GRADE.
- V. GROUND RODS WHICH CANNOT BE DRIVEN STRAIGHT DOWN THE ENTIRE 10'-0", SHALL BE DRIVEN AT AN ANGLE NOT GREATER THAN 45 DEGREES (NEC 250-83 AND 250-84).
- VI. GROUND ROD LOCATIONS SHALL BE NOTED ON THE AS-BUILT DRAWING

COMPLETE WITH DIMENSIONS.

- VII. PROVIDE GROUND TEST WELLS SHOWN ON THE CONSTRUCTION DRAWINGS. C. GROUND CONDUCTOR:
- I. ALL DIRECT BURIED GROUND CONDUCTORS SHALL BE TINNED SOLID (#2 AWG) WIRE. BURIED GROUND CONDUCTOR SHALL BE INSTALLED AT MINIMUM DEPTH OF 36" BELOW GRADE
- II. ALL SUB GRADE GROUND CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES, TEES AND ALL GROUND ROD CONNECTIONS. MOLD, WELD KITS, ETC., SHALL BE MANUFACTURED BY CADWELD AND SHALL BE I INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.
- III. GROUND CONDUCTORS SHALL BE ROUTED IN THE SHORTEST AND C STRAIGHTEST DISTANCES POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. CONDUCTORS SHALL BE INSTALLED AS FOLLOWS:
- IV. ALL GROUND CONDUCTORS SHALL FOLLOW A CONTINUOUS DOWNWARD PATTERN TO THE GROUND SOURCE. (NEVER RUN GROUND CONDUCTOR IN AN UPWARD DIRECTION.)
- V. CONDUCTORS SHALL BE INSTALLED WITH A MINIMUM OF 12-INCH MINIMUM BENDING RADIUS.
- VI. WHEN THE MINIMUM BENDING RADIUS CANNOT BE ACHIEVED, GROUND CABLES SHALL BE ROUTED AT 90-DEGREE BENDS WITH THE USE OF EXOTHERMIC CONNECTIONS AT 90 DEGREES, WITH THE INTENT IS TO ELIMINATE THE CABLE BEND RADIUS AND REPLACE THE RADIUS WITH AN EXOTHERMIC CONNECTION.

PREPARATION:

- A. ALL SURFACES TO WHICH GROUND CONNECTIONS WILL BE MADE SHALL BE FREE OF PAINT, GALVANIZING DIRECT CORROSION, ETC.
- B. ALL METAL SURFACES EXPOSED ON GROUNDING SHALL BE EITHER COLD GALVANIZE, OR PAINTED TO MATCH ORIGINAL SURFACE.
- 6.EXAMINE AREAS AND CONDITIONS UNDER WHICH ELECTRICAL GROUNDING AND BONDING CONNECTIONS ARE TO BE MADE AND NOTIFY CARRIER CONSTRUCTION SUPERVISOR AND ENGINEER OF RECORD IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. THE CONTRACTOR SHALL NOTIFY THE CARRIER CONSTRUCTION SUPERVISOR A MINIMUM OF 24 HOURS PRIOR TO TRENCH BACK FILL. ALL WORK DONE BELOW FINISHED GRADE SHALL BE INSPECTED BY THE CONSTRUCTION SUPERVISOR DURING THAT PERIOD.
 - A. THE CONTRACTOR SHALL TEST THE GROUND ELECTRODE ROD RESISTANCE IN ACCORDANCE WITH THE METHODS OF MEASUREMENT DEFINED IN THE FALL OF POTENTIAL METHOD.
- B. TEST INSTRUMENTS SHALL OPERATE AT A FREQUENCY OTHER THAN 60 HERTZ AND SHALL CONTAIN STRAY CURRENT AND DC FILTERS, FAULT CURRENT PROTECTION AND HAVE SENSITIVITY TO OPERATE A LOW SIGNAL STRENGTH.
- C. PRIOR TO TESTING, THE CONTRACTOR SHALL DE-ENERGIZE ALL POWER SOURCES, DISCONNECT THE ELECTRODE CONDUCTOR FROM THE GROUND ROD, WEAR HIGH VOLTAGE RUBBER SAFETY GLOVES.
- D. GROUND TESTS ARE TO BE PERFORMED BY QUALIFIED PERSONS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE EQUIPMENT AND THE HAZARDS INVOLVED.
- E. AN INDEPENDENT, APPROVED OUTSIDE FIRM SHALL PERFORM THE GROUND TEST AS OUTLINED. ALL TEST RESULTS SHALL BE FORWARDED TO THE CARRIER CONSTRUCTION SUPERVISOR FOR APPROVAL.

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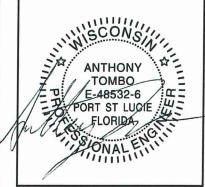


BUSINESS LICENSE #: N/A

REVISIONS

REV DATE DESCRIPTION INT

1 12/20/21 REVISIONS LNM
0 12/15/21 100% CONSTRUCTION BMW
B 12/09/21 ISSUED FOR REVIEW 90% BWS
A 11/29/21 ISSUED FOR REVIEW 90% LNM



HESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, A NUM SHALL REBAIN THE PROPERTY OF POWDER RIVER DEVLOPMEN SERVICES, LLC WHETHER THE PROJECTS FOR WHICH THEY ARE MADEN RE EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHA NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER.

SITE INFORMATION:

T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

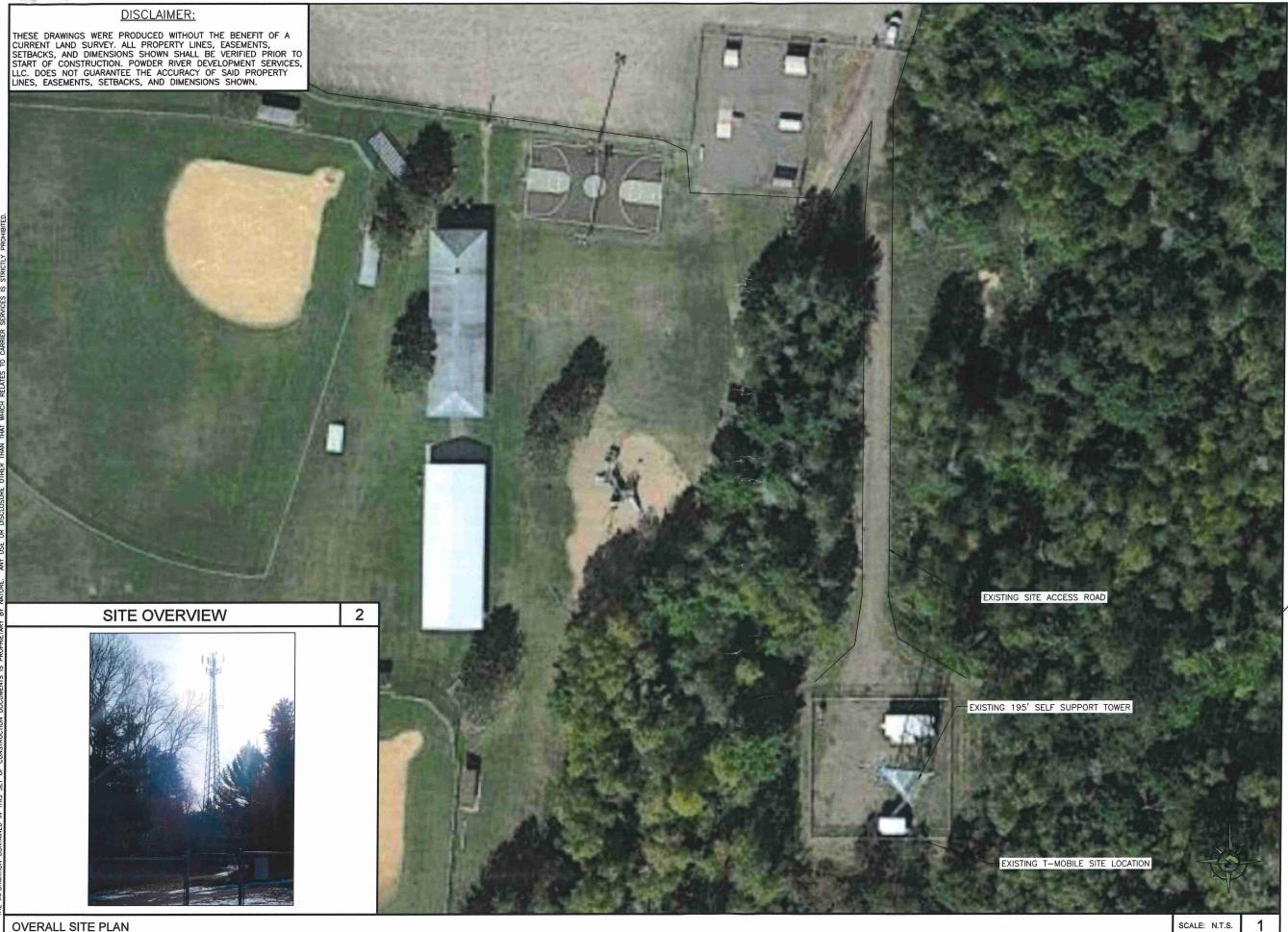
12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-2

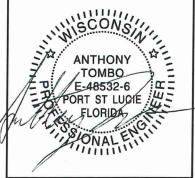


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Α	11/29/21	ISSUED FOR REVIEW 90%	LNN



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SITE INFORMATION:

T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1

DISCLAIMER:

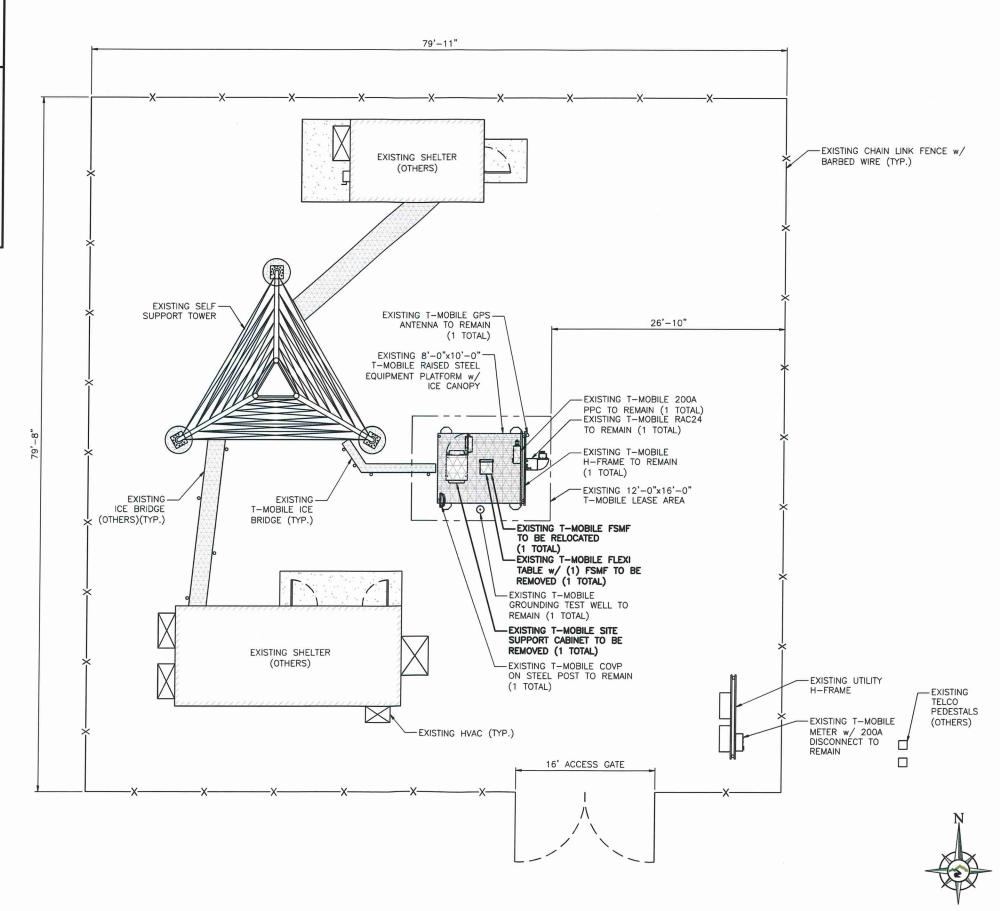
THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY, ALL PROPERTY LINES, EASEMENTS,
SETBACKS, AND DIMENSIONS SHOWN SHALL BE VERIFIED PRIOR TO
START OF CONSTRUCTION. POWDER RIVER DEVELOPMENT SERVICES, LLC. DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, SETBACKS, AND DIMENSIONS SHOWN.

GROUND MOUNTED EQUIPMENT
CHANGES ARE TO BE MADE TO GROUND MOUNTED
EQUIPMENT AS PART OF THE ANCHOR RFDS.

PROPOSED EQUIPMENT:
(1) HPL3 CABINET, (1) LB3 BATTERY CABINET, (2) ASIB,
(1) ASIL, (3) ABIA, (2) ABIO, (3) ABIC, (2) AMIA, (1) CSR IXRE
V2 (GEN2), (1) VOLTAGE BOOSTER w/ (1) EXTRA AMP, (1) HCS
2.0 TOWER JUNCTION BOX, (1) FLOODLIGHT w/ TIMER SWITCH,
AND (1) TIMER SWITCH w/ GFCI PLUG ON PLATFORM.

EXISTING SITE PLAN

EQUIPMENT TO BE REMOVED:
(1) FSMF, (1) FLEXI TABLE, (1) SSC, & (1) CSR 7705 SAR A

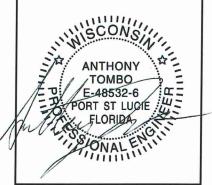


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Α	11/29/21	ISSUED FOR REVIEW 90%	LNM



SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD COUNTY**

SHEET TITLE:

EXISTING SITE PLAN

SHEET NUMBER:

SCALE: 3/32" = 1'-0" (11x17)

C-1.1

DISCLAIMER:

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND DIMENSIONS SHOWN SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. POWDER RIVER DEVELOPMENT SERVICES LLC. DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, SETBACKS, AND DIMENSIONS SHOWN.

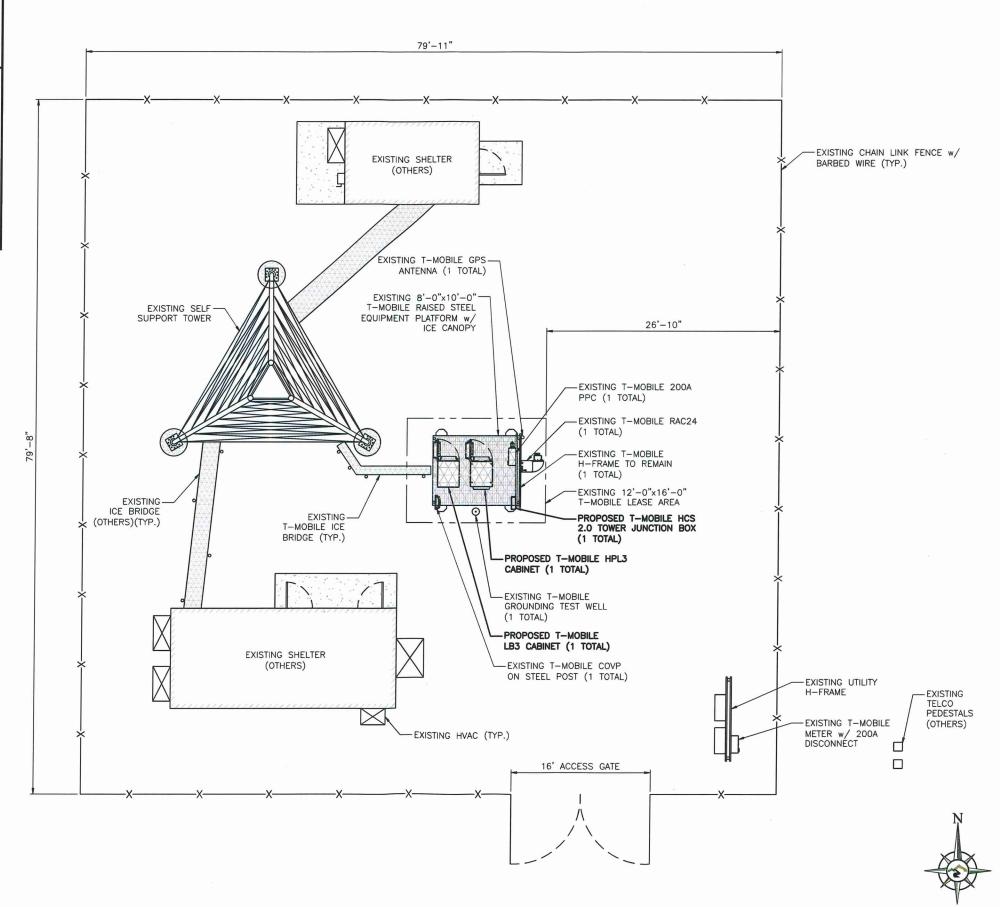
GROUND MOUNTED EQUIPMENT
CHANGES ARE TO BE MADE TO GROUND MOUNTED
EQUIPMENT AS PART OF THE ANCHOR RFDS.

PROPOSED EQUIPMENT:
(1) HPL3 CABINET, (1) LB3 BATTERY CABINET, (2) ASIB,
(1) ASIL, (3) ABIA, (2) ABIO, (3) ABIC, (2) AMIA, (1) CSR IXRE
V2 (GEN2), (1) VOLTAGE BOOSTER w/ (1) EXTRA AMP, (1) HCS
2.0 TOWER JUNCTION BOX, (1) FLOODLIGHT w/ TIMER SWITCH,
AND (1) TIMER SWITCH w/ GFCI PLUG ON PLATFORM.

RELOCATE: (1) FSMF

PROPOSED SITE PLAN

EQUIPMENT TO BE REMOVED:
(1) FSMF, (1) FLEXI TABLE, (1) SSC, & (1) CSR 7705 SAR A

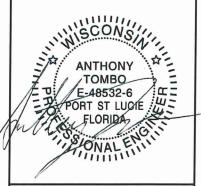


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SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD COUNTY**

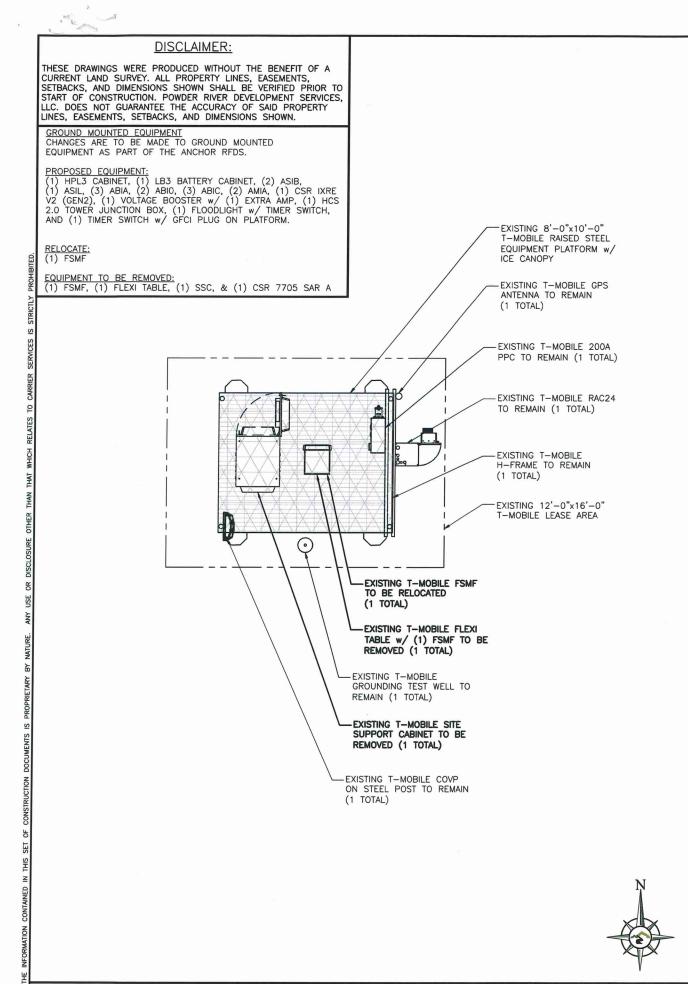
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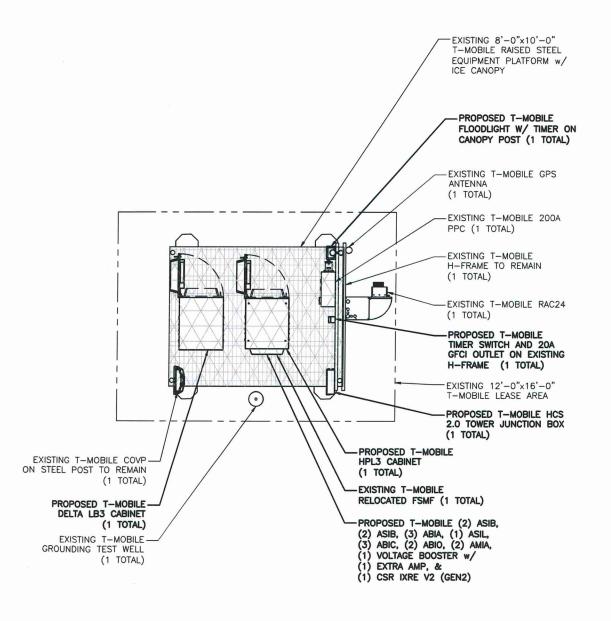
PROPOSED SITE PLAN

SHEET NUMBER:

SCALE: 3/32" = 1'-0" (11x17)

C-1.2



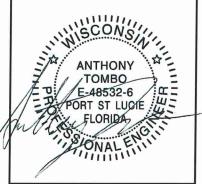




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Α	11/29/21	ISSUED FOR REVIEW 90%	LNM	



SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE. WI 54821 BAYFIELD COUNTY**

SHEET TITLE:

EQUIPMENT PLANS

SHEET NUMBER:

C-2

SCALE: 3/16" = 1'-0" (11x17)

PROPOSED ENLARGED EQUIPMENT PLAN

SCALE: 3/16" = 1'-0" (11x17)

EXISTING ENLARGED EQUIPMENT PLAN

FFVV-65C-R3-V1





MANUFACTURER: COMMSCOPE MODEL: FFVV-65C-R3-V1 WEIGHT: 124.561 LBS

DIMENSIONS: HxWxD: 95.945" x 25.197" x 9.252" FREQUENCY: 617MHz-894 MHz 1695-2690 MHz

CONNECTION: (8) 4.3-10 FEMALE

NOKIA





MANUFACTURER: NOKIA MODEL: AEHC AIRSCALE MAA 64T64R 192AE B41 320W WEIGHT: 108.027 LBS DIMENSIONS: HxWxD: 37.95" x 21.42" x 5.91" FREQUENCY: 2496 — 2690 MHz

SCALE: N.T.S.

ANTENNA INFORMATION 3 ANTENNA ATTACHMENT SCALE: N.T.S.

TOP BRACKET

BOTTOM BRACKET

RADIO MOUNTING DETAIL

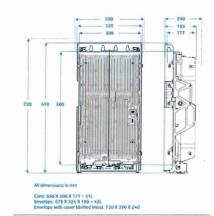
RFS APM40-2 ANTENNA MOUNTING BRACKET (OR EQUIV.), (TYP.)

PROPOSED ANTENNA

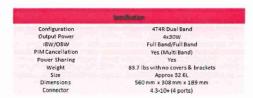
NOKIA

ANTENNA INFORMATION





AHLOA: 600MHz/700MHz Radio (4Tx4Rx RRH)



AHLOA

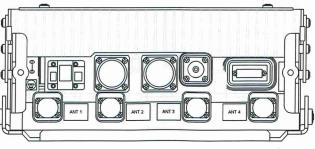
RADIO INFORMATION

- · Based on Airscale Platform
- Tower installation only (No Ground installation)
- · License requirement for MIMO Functions and Dual Band Utilizes 4.3-10 RF Connector
- CPRI fiber front haul
- Product expected Q2 2018

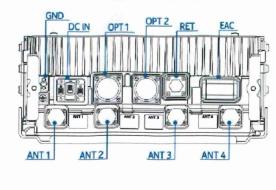
RADIO INFORMATION

5

SCALE: N.T.S.

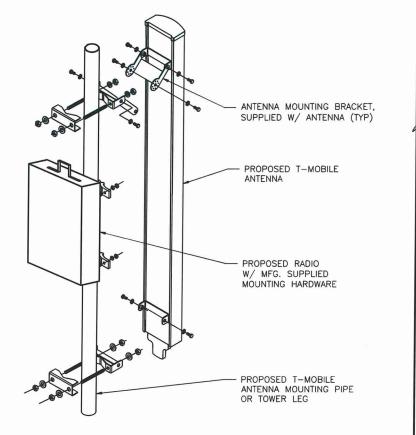


NOKIA



MANUFACTURER: NOKIA MODEL: AHFIG WEIGHT: 70.6 LBS DIMENSIONS: HxWxD: 28.7" x 12.9" x 5.6" FREQUENCY: 1710 - 1780 MHz

SCALE: N.T.S.

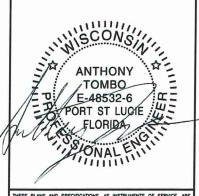




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В	12/09/21	ISSUED FOR REVIEW 90%	BWS
Α	11/29/21	ISSUED FOR REVIEW 90%	LNM



SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD COUNTY**

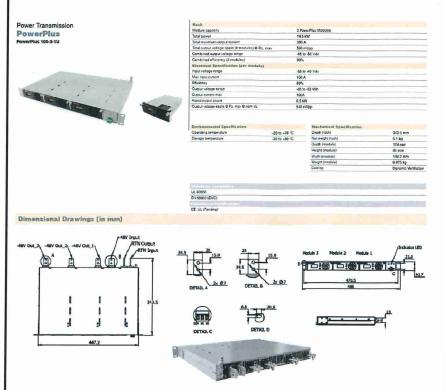
SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

2

SCALE: N.T.S.





MANUFACTURER: RAYCAP
MODEL: BOTTOM JUNCTION BOX
WEIGHT: 21.9 LB DIMENSIONS: HxWxD: 14" x 16" x 8"

VOLTAGE BOOSTER INFORMATION

SCALE: N.T.S.

JUNCTION BOX DETAIL

SCALE: N.T.S.

FLORIDA FORT ST LUCIE TOMBO

L'SCONS!

ANTHONY

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T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

Development Services, LLC

REVISIONS

DESCRIPTION

BUSINESS LICENSE #:

1 12/20/21 REVISIONS

0 12/15/21 100% CONSTRUCTION B 12/09/21 ISSUED FOR REVIEW 90% A 11/29/21 ISSUED FOR REVIEW 90%

REV DATE

SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-4

20A OUTDOOR GFCI/SWITCH COMBO

REPLACE THE STANDARD SWITCH SUPPLIED WITH THE ENCLOSURE WITH AN INTERMATIC 20A, SPST, SPRING WOUND TIMER SWITCH WITH A RANGE FROM 0 TO 2 HOURS (INTERMATIC PART NO. FF2H) OR EQUIVALENT. THE SWITCH SHALL NOT HAVE A HOLD FEATURE TO OVERRIDE THE TIMER.

MIDWEST ELECTRIC PRODUCTS (OR EQUIVALENT) U010S010GRP MANUFACTURER: 4.5 LBS

7250 IXR-e V2 Height / RU 1 RU Forwarding Capacity (FD) 300Gbps Temperature Range -40°C to 65°C 24p SFP/SFP+ 10G Port Count 25G Port Count 8p SFP28/SFP+ 100G Port Count 2p QSFP28 Power Supply AC/DC 300W Software support Built-in GNSS available in end of Timing 2020

MODEL: DIMENSIONS: WEIGHT: VOLTS: 120

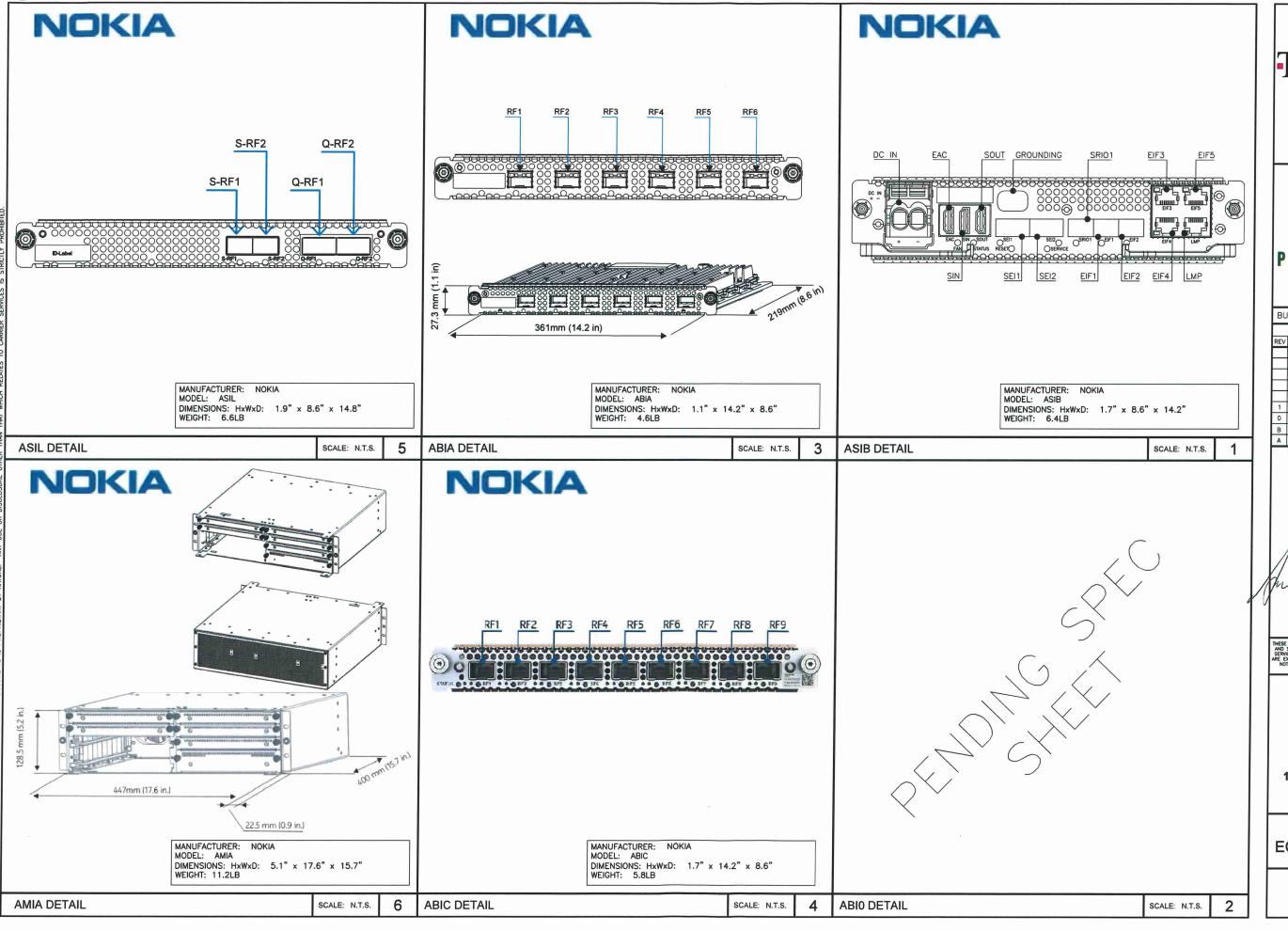
NOT USED GFCI w/ TIMER DETAIL

SCALE: N.T.S.

7250 IXR-E V2 INTERCONNECT ROUTER DETAIL

2 SCALE: N.T.S.

3





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BU	BUSINESS LICENSE #:			
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В	12/09/21	ISSUED FOR REVIEW 90%	BWS	
Α	11/29/21	ISSUED FOR REVIEW 90%	LNM	



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SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-5

Specifications

Model	HP-Large 3 Power Cabinet
1. General	
Construction	Aluminum enclosure
Dimensions (W x H x D)	30 x 72 x 36 in. (762 x 1829x 914mm), Depth with door, 43 in. (1052mm)
Weight	~551 lbs (~270kg) (without customer equipment or batteries)
internal rack dimension	Total Equipment space, 30RU: Horizontal rack: 19" x 27RU Vertical rack: 19" x 3RU Power System space: 23" x 12RU
Mounting options	Pad-mount, plinth option
Finish	Polyester Powder Paint (Tan)
Safety	UL Listed , IEC / EN 60950
2. Environment	
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar load. IP55

Protecto	n dass	designed to GR-487	
Acoustic	5	5°C delta T: 70 dBA @ 6000W, 65dBA @5000W heat load	
Humidity (relative)		95%,non-condensing (Max.)	
3. Them	namagement		
Cooling	Equipment	Direct Air Cooling, 6000W capacity, 5°C delta T (6) centrifugal redundant fans, (3) Menv-13 or optional GORE filters front door (3) Merv-13 filters Rear hatch	

Heating Equipment: Forced air heating (2) 1000W AC heaters

4. Equipment	
	Knock-out plate on each upper side wall
Cable Entry	Additional knockouts each side
	(1) 3° conduit hole with hole plug
Door latch	3 point latching, 5/16 nut driver tool, pad-locking capability
Primary ground	10 double-hole 1/4"-20 threaded holes on 5/8" center ground bar
Lifting Ears	4 Lifting Tabs
Standard equipme	AC Load Center: 240V split phase, dual feed / (1) 200A + (1)100A 208V 3-phase, single feed / (1) 200A AC Surge Protection for each breaker feed GFCI Receptacle 120V (6 form-C) Alarm Termination block (1) Thermal Probe 605A/ 54V (336kW) redundant Power System with DIN rail distribution: 12 rectifer positions (3x55A DPR3000 rectifers included) 52 poles for load (2x10A, 3x50A, and 6x100A load breakers included) 16 poles for battery (2) 08350 generator connector LVD over-ride switch (2) 08175 Battery connections (2) 08150 Battery connections
	Front Door: (6) DC powered centrifugal fans with (3) MERV-13 filters, (GORE option) Clogged Filter aliam pressure switch Door intrusion aliam (2) 1000W AC powered heaters LED interior cabinet light Rear Hatch: Exhaust vent with (3) MERV-13 filters
5. Ordering inform	
Cabinet	ESOA600-HCU01 HP-Large 3 600A Power / Equipment Cabinet
Rectifier	ESR-48/60A A-T 48V / 56A 3000W, 96.4%, CAN communication
Controller (Spare)	TPS1020028AU17 Orion TOUCH Controller
Plinth, 6"	37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3 cabinets





Front Door and Rear Hatch Open

'All specifications are subject to change without prior notice.



Product Features

Compact design for equipment, power and battery:

- · 30RU supports 3 radios and transport equipment
- 600A @ -48V power system
- · Slimline high efficiency rectifier
- · ORION Touch screen Controller
- Rear Access Hatch

Direct air cooling solution, 6000W capacity, 5°C delta T Easy slide-in filter replacement for Merv-13 or Gore filter connects with:

- SB3, 2-string battery cabinet
- · LB3, 4-string battery cabinet
- V2, Expansion equipment and battery cabinet

Designed to GR-487 specifications

www.deltaww.com



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FOR REFERENCE ONLY

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> SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-6

CABINET DETAILS sc

Specifications

Model	LB3 (Large Battery 3 Cabinet)				
1. General					
Construction	Aluminium enclosure				
Dimensions	30 x 72 x 35 in. (381 x 1829x 889mm),				
(W x H x D)	Depth with Door: 41.2 in. (1047mm)				
Weight	~540 lbs (~245kg) (without batteries)				
Internal rack dimension	4 battery trays to support up to 4 strings 210Ah batteries				
Mounting options	Pad-mount, plinth option				
Finish	Polyester Power Paint (Tan)				
Safety	UL Listed, IEC / EN 60950				
2. Environment					
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar load				
Protection class	IP55 designed to GR-487				
Acoustics	65dBA				
Humidity (relative)	95%, non-condensing (Max.)				
3. Thermal Managemen	nt				
Cooling Equipment:	Direct Air Cooling				
Heating Equipment:	Forced air heating (1) 1000W AC heaters				
4. Equipment					
	Knock-out plate on each upper side wall				
Cable entry	Additional knockouts each side				
Door latch	3 point latching, 5/16 nut driver tool, pad-locking capability				
Primary ground	10 double-hole 1/4"-20 threaded holes on 5/8" center ground bar				
Lifting Ears	4 Lifting Tabs				
Plinth	Optional 6" plinth available				
	AC Load Center:				
	30A heater breaker				
	Left or Right side AC entry options				
	AC Surge Protection (option)				
	DC Load Center:				
	600A bulk feed bus bar				
	(4) 200A bolt in battery breakers				
Standard equipment	(4) 2-hole lug landings, (2 output/2 input from second battery cabinet				
	Temp Probes				
	Battery Trays:				
	(4) battery trays				
	(4) 48V battery strings (210Ah max each)				
	Connection kit:				
	(1) DC 10A Breaker supplied (install onto HPL3 Power Cabinet)				
	LED interior cabinet light				
	(2) DC powered Axial fans with (1) F5 Filters				
Front Door:	Door intrusion alarm				
	(1) 1000W AC powered heaters				
5. Ordering information					
Cabinet	ESOF015-ECV04 Large Battery 3 (LB3) Cabinet				
Plinth, 6*	37993318816900-S Plinth for V1/V2, HPL3, LB2 and LB3				
min, v	57 6655 100 10600-5 Filling 101 V 1/V2, FFL2, FFL3, L52 810 L53				











Large Battery 3 Cabinet

Product Features

Compact design for battery strings:

- · Direct air cooling solution
- Supports four strings of -48V VRLA batteries up to 210Ah
- · 600A rated bus bar with 200A breaker per string
- · Bulk Input / Output with ability to daisy chain cabinets
- · Front to Front Air Flow
- Corrosion resistant aluminum construction
- · Powder coated high gloss finish
- Designed to meet GR-487



www.deltaww.com



T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



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В	12/09/21	ISSUED FOR REVIEW 90%	BWS
Α	11/29/21	ISSUED FOR REVIEW 90%	LNM

FOR REFERENCE **ONLY**

SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD COUNTY**

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-7

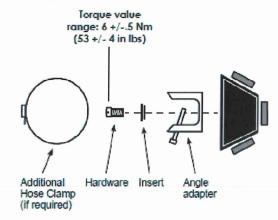
CABINET DETAILS

SCALE: N.T.S.

Technical Publication



Section 4: Mounting / Grounding





Mounting to Mounting to Grounding Steel support Pipe mount Pendant includes a grounding stud. A 2 - 6 AWG weatherable conductor should be run as straight and short as possible to an adequate grounding point to perform properly. (contractor supplied)

Visit www.commscope.com for complete specifications on all the products listed

Bulletin # 7727406 Rev. C

Technical Publication

COMMSCOPE®

Cable Assembly

Length

6 AWG

conductors

Section 2: General Specifications

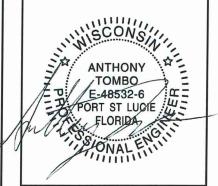
perFeed®
d aluminum
sitive single mode fiber (G.657.A2)
ikout
km 970.0 lb/kft
1.20 in
nectors
nectors
33 in
31 in
24 in
24 in
12 in
fell Ot
00 lbf

Cable Type	FD21206-48S55-XXX
Brand	HELIAX® FiberFeed®
Center Conductor Gauge	6 AWG
Conductors, quantity	12
Total Fiber Quantity	48
Shielding Type	Corrugated aluminum
Fiber Type	Bend insensitive single mode fiber (G.657.A2)
Construction Type	Direct Breakout
Dimensions	
Cable Weight	2544.0 kg/km 1710.0 lb/kft
Diameter Over Jacket	39.38 mm 1.55 in
Breakout Length, Fiber, end 1	HQLC Connectors
Breakout Length, Power, end 1	HQLC Connectors
Breakout Length, Fiber, end 2	826 mm 33 in
	775 mm 31 in
Breakout Length, Power, end 2	610 mm 24 in
Physical Specifications	
Minimum Bend Radius, loaded	787.4 mm 31.0 in
Minimum Bend Radius, unloaded	472.4 mm 18.6 in
Tensile Load, long term, maximum	801 N 180 lbf

2669 N | 600 lbf

Bulletin # 7727406 Rev. C

End 1 **HQLC** connectors (standard DLC connectors with power) Development Services, LLC BUSINESS LICENSE #: REVISIONS



1 12/20/21 REVISIONS

0 12/15/21 100% CONSTRUCTION B 12/09/21 ISSUED FOR REVIEW 90%

A 11/29/21 ISSUED FOR REVIEW 90%

T - Mobile - *

T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069

SITE INFORMATION: T-MOBILE SITE #: A1N0943A

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12955 CABLE SUNSET RD **CABLE, WI 54821 BAYFIELD COUNTY**

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-8

Visit www.commscope.com for complete specifications on all the products listed

CABLE & PENDANT SPECIFICATIONS

Tensile Load, short term, maximum

SCALE: N.T.S.

CABLE & PENDANT MOUNT DETAILS

SCALE: N.T.S.

DLC

connectors

End 2

6 RRU assembly shown

CATALOG NUMBER: FIXTURE SCHEDULE:

LED FLOOD LIGHT SFL2 SERIES





Housing, electrical compartment and fitter are all made

mounting of optional light control accessories.

- ing product life and performance

- Universal 120-277 VAC input voltage.
- Operating Temperature Range: -40C + 40C (-40F + 104F)

The GLT SFL2 luminaire is a high performance LED lighting solution designed with optical versatility and a slim, low profile equirements and features an integral, watertight LED driver ompartment and high performance aluminum heat sinks.

APPLICATIONS:

lighting, landscape lighting.

FEATURES:

- from die case aluminum that is pre-treated and
- Door frame features an integral accessory channel for the illumination while reducing light behind the poles.
- Vented housing isolates LED module from driver, maximizinal heat sink for maximum thermal dissipation.
- Door frame seals to housing with a continuous extruded
 DesignLights Consortium[™] Qualified. silicone gasket.

- Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours.

PRODUCT DESCRIPTION:

design. Its rugged cast aluminum housing minimizes wind load Markets include parking lots, walkways, campuses, car dealerhips, office complexes, and internal roadways.

Building lighting, facade lighting, wall washing, poster board

- Optics(NEMA Type): 7H*6V Wide Distribution
- Scalable Lumen Packages from 2,000 to 7,600 Lumens
- powder-coated to meet the most rugged industry standards. Provides the best combination of vertical and horizontal
 - High performance acrylic optic securely attached to inter-

Certifications

- UL cUL wet location listed.

5 years limited warranty.

ORDERING INFORMATION:

ORDE	RING IN	FORMATI	ON:			E	kample: S	FL-15W-UV	-B77-50K	-тнк
SFL			UV		877		50K		THK	
Series	Wattage		Volt	age	Distri	bution	CCT		Mou	nting
SFL2	15W 30W 45W 60W	15 watts 30 watts 45 watts 60 watts	UV	120-277V	B77	7H x 6V	50K	5000K	THK TR	Knuckle Trunnion

GLT

LED FLOOD LIGHT

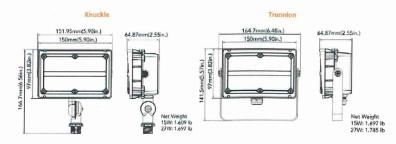
SPECIFICATIONS:

Dimming	0-10V dimmable	Color Finish	Dark Bronze
Housing Material	Die-cast aluminum	Operating Temperature	-40°C to 40°C
Lens Type	Acrylic	Environment	Suitable for wet location
Light Distribution	NEMA 7H x 6V	L70 Life	100,000 hours
Power Factor	0.90	Warranty	5 Years

PERFORMANCE DATA: SFL2-15W & SFL2-30W

SKU	SFL2-15W-UV-B77-50K-XX	SFL2-30W-UV-B77-50K-XX
MFR Part #	MFD0815W27V50KDB76XX	MFD0827W27V50KDB76XX
DLC ID #	PUPI8ZOJ	PMJDNS52
HID Equal	70W MH	150W MH
Wattage	15 Watts	27 Watts
Lumens	2,000	3,600
ССТ	5000K	5000K
Voltage	120-277V	120-277V
Efficacy	130 lm/W	130 lm/W
CRI	70	70

DIMENSIONS: Knuckle & Trunnion Mount



GLT

LED FLOOD LIGHT SFL2 SERIES

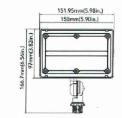
SPECIFICATIONS:

Dimming	0-10V dimmable	Color Finish	Dark Bronze
Housing Material	Die-cast aluminum	Operating Temperature	-40°C to 40°C
Lens Type	Acrylic	Environment	Suitable for wet location
Light Distribution	NEMA 7H x 6V	L70 Life	100,000 hours
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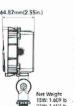
PERFORMANCE DATA: SFL2-15W & SFL2-30W

SKU	SFL2-15W-UV-B77-50K-XX	SFL2-30W-UV-B77-50K-XX
MFR Part #	MFD0815W27V50KDB76XX	MFD0827W27V50KDB76XX
DLC ID#	PUPI8ZOJ	PMJDNS52
HID Equal	70W MH	150W MH
Wattage	15 Watts	27 Watts
Lumens	2,000	3,600
сст	5000K	5000K
Voltage	120-277V	120-277V
Efficacy	130 lm/W	130 lm/W
CRI	70	70

DIMENSIONS: Knuckle & Trunnion Mount



Revised: 12-03-20





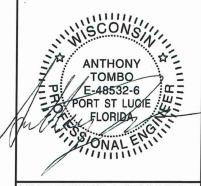


Revised: 12-03-20

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SITE INFORMATION: T-MOBILE SITE #: A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

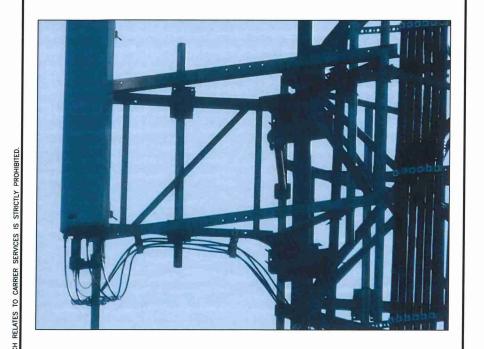
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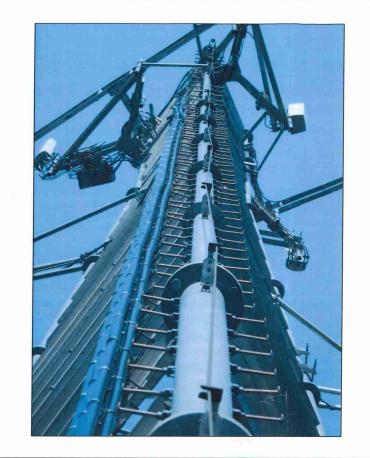
EQUIPMENT DETAILS

SHEET NUMBER:

LED FLOOD LIGHT DETAILS

SCALE: N.T.S.







SITE PHOTO 3 SITE PHOTO 1







SITE PHOTO 6 SITE PHOTO 4 SITE PHOTO

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> SITE INFORMATION: T-MOBILE SITE #:

A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

SITE PHOTOS

SHEET NUMBER:

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5 SITE PHOTO 3 SITE PHOTO 1



SITE PHOTO





SITE PHOTO 6 SITE PHOTO 4 SITE PHOTO



T-MOBILE USA, INC. 8000 WEST 78TH STREET SUITE 400 EDINA, MN 55439 OFFICE: 612.701.2069



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12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

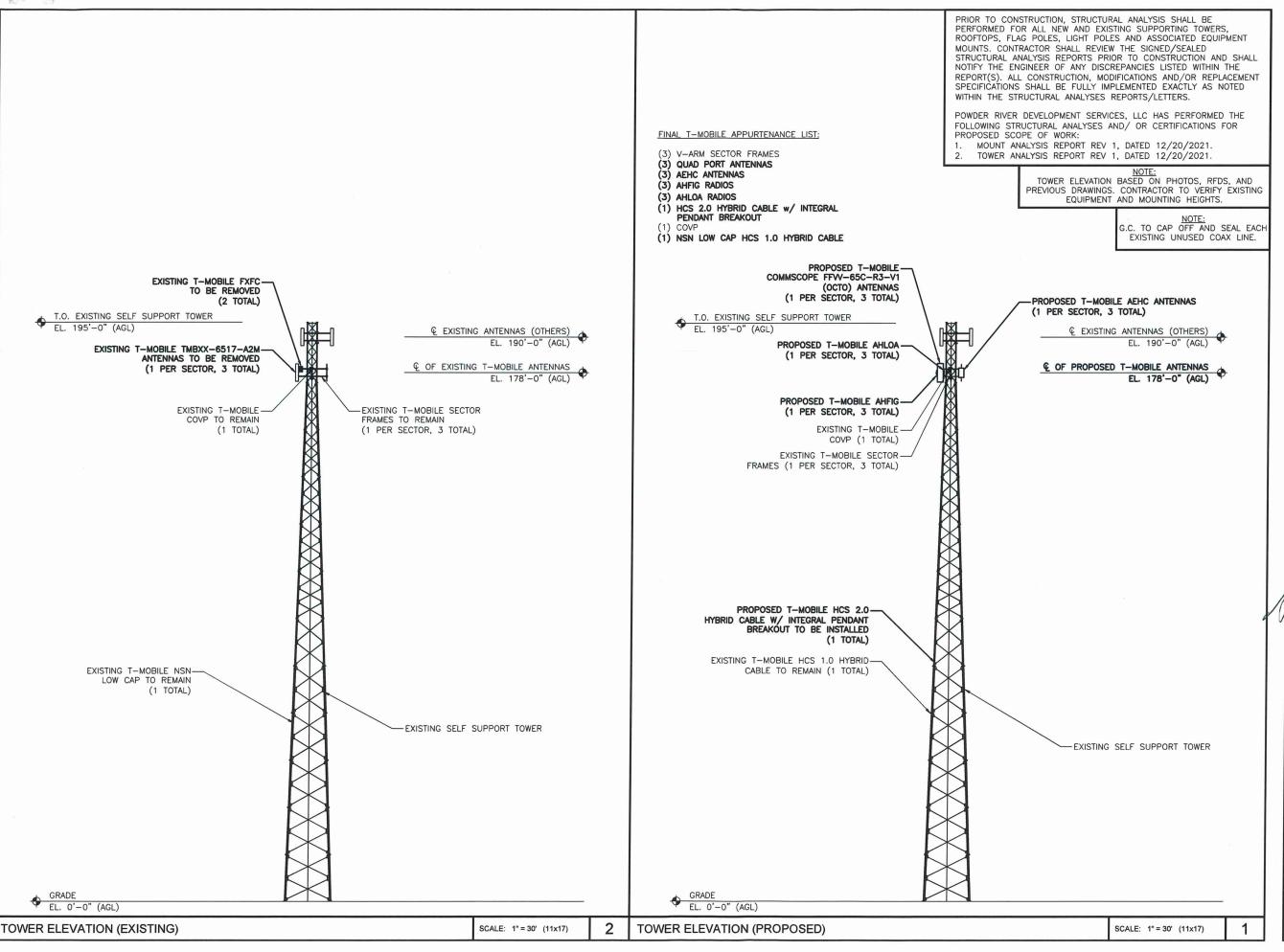
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SITE INFORMATION:
T-MOBILE SITE #:

A1N0943A

T-MOBILE SITE NAME: A1N0943A (CABLE TOWER)

12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

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SHEET NUMBER:

A-1

NOTE:

RETURN ALL OLD / UNUSED EQUIPMENT TO THE CTDI WAREHOUSE PRIOR TO PICKING UP NEXT SITE PACK.

ANTENNA AND COAXIAL CABLE SCHEDULE

<u>NOTE:</u> G.C. TO CAP OFF AND SEAL EACH EXISTING UNUSED COAX LINE. PRIOR TO CONSTRUCTION, STRUCTURAL ANALYSIS SHALL BE PERFORMED FOR ALL NEW AND EXISTING SUPPORTING TOWERS, ROOFTOPS, FLAG POLES, LIGHT POLES AND ASSOCIATED EQUIPMENT MOUNTS. CONTRACTOR SHALL REVIEW THE SIGNED/SEALED STRUCTURAL ANALYSIS REPORTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES LISTED WITHIN THE REPORT(S). ALL CONSTRUCTION, MODIFICATIONS AND/OR REPLACEMENT SPECIFICATIONS SHALL BE FULLY IMPLEMENTED EXACTLY AS NOTED WITHIN THE STRUCTURAL ANALYSES REPORTS/LETTERS.

POWDER RIVER DEVELOPMENT SERVICES, LLC HAS PERFORMED THE FOLLOWING STRUCTURAL ANALYSES AND/ OR CERTIFICATIONS FOR PROPOSED SCOPE OF WORK:

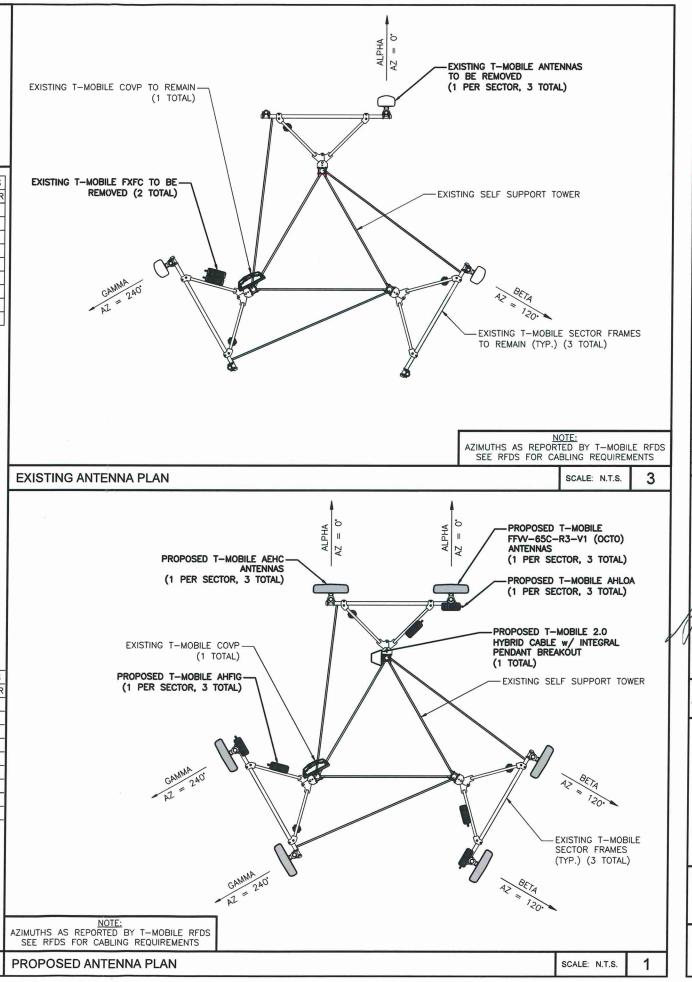
- . MOUNT ANALYSIS REPORT REV 1, DATED 12/20/2021.
- 2. TOWER ANALYSIS REPORT REV 1, DATED 12/20/2021.

		ANTENNA	TEO. 11.01.00V	ANTENNA	MODEL	ANTENNA RAD				RRU	01D15 D105 / 0175	HYBRID CABI	LE LENGTHS
l_		NUMBER	TECHNOLOGY	VENDOR	NUMBER	CENTER	AZIMUTH	TMA	DIPLEXER	TYPE	CABLE TYPE / SIZE	CABLE	JUMPER
	۳ ۲	A-1	U1900/L1900	ANDREW	TMBXX-6517-A2M	178'	0.					195'	
	SECTOR									SHARED			
	S												
	ر ۾	B-1	U1900/L1900	ANDREW	TMBXX-6517-A2M	178'	120°				(1)		
إ	SECTOR									SHARED NSN LOW			
	S				- 29						CAP		
4 €	٤ ٢	G-1	U1900/L1900	ANDREW	TMBXX-6517-A2M	178'	240°			FXFC			
1	SECTOR										(2)		
C	, v									. ,			

EXISTING ANTENNA AND HYBRID CABLE SCHEDULE

2	ANTENNA	TECHNOLOGY	ANTENNA	MODEL	ANTENNA RAD	AZIMUTH	RRU	CABLE TYPE / SIZE	HYBRID CAB	LE LENGTHS
2	NUMBER	TECHNOLOGY	VENDOR	NUMBER	CENTER	AZIMOTH	TYPE	CADLE TITE / SIZE	CABLE	JUMPER
	A-1	L7/L6/N6/U19/L21/L19	COMMSCOPE	FFW-65C-R3-V1	178'	0.	AHFIG/AHLOA		195'	
ALPHA	A-2	N2500/L2500	NOKIA	AEHC	178'	0,			195'	
	7							(1)		
	B−1	L7/L6/N6/U19/L21/L19	COMMSCOPE	FFW-65C-R3-V1	178'	120°	AHFIG/AHLOA	NSN LOW CAP		
BETA	B-2	N2500/L2500	NOKIA	AEHC	178'	120°				
	7							(1) HCS 2.0		
4	g−1	L7/L6/N6/U19/L21/L19	COMMSCOPE	FFW-65C-R3-V1	178'	240°	AHFIG/AHLOA	HYBRID		
GAMMA	G−2	N2500/L2500	NOKIA	AEHC	178'	240°		CABLE		
(C	ň							Ĭ		

PROPOSED ANTENNA AND HYBRID CABLE SCHEDULE

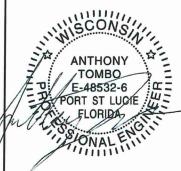




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12955 CABLE SUNSET RD CABLE, WI 54821 BAYFIELD COUNTY

SHEET TITLE:

ANTENNA PLANS

SHEET NUMBER:

A-2